

STATE OF CONNECTICUT

SITING COUNCIL

\* \* \* \* \*  
 \* JUNE 12, 2012  
 TEN-YEAR FORECAST OF \*  
 ELECTRIC LOADS AND RESOURCES \* (1:05 p.m.)  
 \*  
 DOCKET NO. F-2012-2013 \*  
 \*  
 \* \* \* \* \*

BEFORE: ROBIN STEIN, CHAIRMAN

BOARD MEMBERS: Colin C. Tait, Vice Chairman  
 Brian Golembiewski, DEP Designee  
 Larry Levesque, DPUC Designee  
 Edward S. Wilensky  
 Daniel P. Lynch, Jr.  
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HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 . . .Verbatim proceedings of a hearing  
2 before the State of Connecticut Siting Council in the  
3 matter of F-2012-2013 Ten-Year Forecast of Electric Loads  
4 and Resources for Connecticut, held at the offices of the  
5 Connecticut Siting Council, Ten Franklin Square, New  
6 Britain, Connecticut, on June 16, 2012 at 1:05 p.m., at  
7 which time the parties were represented as hereinbefore  
8 set forth . . .

9  
10  
11 CHAIRMAN ROBIN STEIN: Good afternoon  
12 everybody. This is Connecticut Siting Council Docket No.  
13 F-2012-2013. I'd like to call the meeting to order  
14 today, Tuesday, June 12, 2012, at approximately 1:05.

15 My name is Robin Stein and I'm the  
16 Chairman of the Connecticut Siting Council. Other  
17 members -- other members of the Council are Professor  
18 Tait, Vice Chairman; Mr. Golembiewski, the designee from  
19 the Department of Energy and Environmental Protection;  
20 Mr. Levesque, the designee from the Public Utilities  
21 Regulatory Authority. I understand Mr. Ashton will be  
22 joining us shortly, but present are Mr. Lynch, Senator  
23 Murphy, Dr. Bell, and Mr. Wilensky.

24 Members of the staff are Linda Roberts,

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HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 Executive Director; Melanie Bachman, Staff Attorney; and  
2 Michael Perrone, the Siting Analyst. Gail Gregoriades,  
3 the court reporter.

4 The Connecticut Siting Council is holding  
5 this public hearing on this 2012-2013 Ten-Year Forecast  
6 for Electric Loads and Resources in Connecticut pursuant  
7 to General Statute 16-50r. The purpose of this hearing  
8 is to examine the adequacy and reliability of electric  
9 generation and transmission in the State while  
10 considering the cost to consumers and protecting the  
11 environment.

12 Pursuant to these statutory requirements,  
13 this proceeding will analyze load growth forecasts of the  
14 State's electric utilities and plans to meet the demand  
15 for electricity through the year 2012 -- I'm sorry, 2021.  
16 Included in this analysis will be the following:

17 The estimated peak loads, resources, and  
18 margins for each year within the forecast period;

19 Data on energy use and peak loads for the  
20 five preceding calendar years;

21 Existing generating facilities in  
22 services;

23 Scheduled generating facilities for which  
24 property has been acquired for which certificates have

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1       been issued and for which certificate applications have  
2       been filed;

3                   Planned generating units at plant  
4       locations for which property has been acquired or at  
5       plant locations not yet acquired that will be needed to  
6       provide estimated additional electrical requirements in  
7       the location of such facilities;

8                   And planned transmission lines on which  
9       proposed route reviews are being undertaken or for which  
10      certificate applications have already been filed;

11                  Also steps taken to upgrade existing  
12      facilities and to eliminate overhead transmission and  
13      distribution lines;

14                  And electricity purchased from private  
15      power producers.

16                  The parties to this proceeding are as  
17      follows: FirstLight Power Enterprises, Attorney Kenneth  
18      Baldwin; Dominion Nuclear Connecticut, Inc., also  
19      Attorney Kenneth Baldwin; NRG Companies, Attorney Andrew  
20      Lord; Connecticut Municipal Electric Cooperative,  
21      Attorney Robin Kipnis; United Illuminating Company, or  
22      UI, Attorney Bruce McDermott; and The Connecticut Light  
23      and Power Company, or CL&P, Stephen Gibelli, Attorney.

24                  We have a request to make ISO New England

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 an intervenor in this proceeding. Is there a motion to  
2 make ISO --

3 MR. COLIN C. TAIT: So moved.

4 CHAIRMAN STEIN: I have a motion. Do I  
5 have a second?

6 DR. BARBARA BELL: I'll second.

7 CHAIRMAN STEIN: Any discussion. Hearing  
8 none, all those in favor of the motion, signify by saying  
9 aye.

10 VOICES: Aye.

11 CHAIRMAN STEIN: Opposed? Abstentions?  
12 The vote carries.

13 And just so you know, the hearing will  
14 also continue this evening at 7:00 p.m. for the  
15 convenience of the public, and thereafter as necessary.  
16 Any person who desires to make their views known to the  
17 Council, may make an oral statement this evening or  
18 submit a written statement to the Council no later than  
19 July 14, 2011.

20 A verbatim transcript will be made of this  
21 hearing and deposited at the Council's office here in New  
22 Britain for the convenience of the public.

23 I wish to call your attention to those  
24 items shown on the hearing program marked as Roman

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 Numerals I-D, Items 1 through 8. Do any of the parties  
2 or intervenors have any objection to the items that the  
3 Council has administratively noticed? Hearing and seeing  
4 none, accordingly the Council hereby administratively  
5 notices these existing documents, statements, and  
6 comments.

7 Will the first participant, ISO New  
8 England, present its witnesses for the purposes of taking  
9 the oath, and come up to the table please.

10 (pause)

11 CHAIRMAN STEIN: It's helpful that you  
12 have nametags. Attorney Flynn -- is that -- well which -  
13 - which is --

14 MR. THOMAS O'CONNOR: Attorney O'Connor.

15 CHAIRMAN STEIN: Attorney O'Connor. I  
16 apologize.

17 MR. O'CONNOR: Tom O'Connor with Whitman,  
18 Breed, Abbott, and Morgan for ISO New England.

19 CHAIRMAN STEIN: Right. Would you have  
20 your witnesses take the oath.

21 MS. MELANIE BACHMAN: Please raise your  
22 right hand.

23 (Whereupon, Mark Karl and David Ehrlich  
24 were duly sworn in.)

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MS. BACHMAN: Thank you.

2 CHAIRMAN STEIN: Do you --

3 COURT REPORTER: You need to bring those  
4 microphones up closer please.

5 A VOICE: Is that better?

6 CHAIRMAN STEIN: Do -- do you have any  
7 exhibits?

8 MR. O'CONNOR: We do not.

9 CHAIRMAN STEIN: Okay. So we'll just go  
10 right to cross-examination, starting with staff, Mr.  
11 Perrone.

12 MR. MICHAEL PERRONE: I understand ISO has  
13 a monthly seasonal claim capability report for  
14 generators. Do the generators perform their own audits  
15 and submit that info to ISO? How does that work and how  
16 often?

17 MR. MARK KARL: The way the audit process  
18 works is the generator calls the ISO and notifies the ISO  
19 that they are ready for an audit. The ISO then over the  
20 next week or so schedules -- schedules the audit. The  
21 generator does their performance testing and the ISO uses  
22 the metering reported by the meter readers, which are  
23 typically the utilities, to determine whether the  
24 generator actually performed properly.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. PERRONE: And about how often is that  
2 required to be done? Generally?

3 MR. KARL: We have summer and winter  
4 audits. I believe it's yearly.

5 MR. PERRONE: What is the status of the  
6 2012 Regional System Plan?

7 MR. KARL: The Regional System Plan is in  
8 its internal review phase right now. The way the process  
9 works is we have a review at the senior staff level.  
10 That review has happened. We've had some preliminary  
11 reviews with our board. And it will then be rolled out  
12 to the public meeting. I believe the public meeting is  
13 in September, if I remember, and that's a public review  
14 of the plan.

15 MR. PERRONE: Does the RSP use the same  
16 forecast as the CELT report?

17 MR. DAVID EHRLICH: Yes.

18 MR. PERRONE: Okay. And that's C-E-L-T  
19 for the transcript.

20 MR. EHRLICH: Yes.

21 MR. PERRONE: Have there been any changes  
22 to how ISO performs its forecast? Like I know -- and  
23 we've asked this before -- that -- you know, energy  
24 efficiency, demand response, and emergency generation

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 have been treated as supply resources. That -- that  
2 still holds?

3 MR. EHRLICH: Yes.

4 MR. PERRONE: Now in the energy efficiency  
5 and demand response part of ISO's forecast, does ISO  
6 collaborate with the Connecticut utilities on that?

7 MR. KARL: On the energy efficiency  
8 forecast?

9 MR. PERRONE: Yes.

10 MR. KARL: Yes.

11 MR. PERRONE: Okay. And how does ISO  
12 differentiate active versus passive demand resources,  
13 generally?

14 MR. KARL: Well generally speaking, the  
15 passive resources are resources that create a permanent  
16 reduction in consumption. So the easiest way to think of  
17 it is efficiency. So if you install lighting or  
18 insulation, that sort of a thing, that's a -- that's  
19 considered a passive demand resource.

20 The active demand resources are the ones  
21 that we would call up and actually request them to take  
22 power off the system. So you may think about, you know,  
23 industrial interruption, you may think about commercial  
24 buildings that have their energy management system

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 program to accomplish reduction for a period of time.

2 MR. PERRONE: I took a look at the June 1,  
3 2012 interconnection cue, the public version, and it --  
4 it showed -- I believe it showed two natural gas-fired  
5 combined cycle facilities planned for Connecticut, one in  
6 New Haven County and one in Fairfield County. Does that  
7 sound right?

8 MR. KARL: That sounds right, but I -- I  
9 would have to verify that.

10 MR. PERRONE: And in our draft report,  
11 which will be out late this year, we plan to do a  
12 comparison of the 2002 forecast, which goes out to 2011,  
13 compared with the actual historical data, weather  
14 normalized. I was wondering if it would be possible to  
15 get as a late file exhibit the weather normalized  
16 historical energy and load data for Connecticut for 2002  
17 through 2011 and the predicted 50/50 forecast data from a  
18 2002 forecast?

19 MR. EHRLICH: We don't weather normalize  
20 state energy in peaks. And -- I could probably find the  
21 2002 forecast --

22 MR. KARL: Weather normalized --

23 MR. EHRLICH: Well the forecast is 50/50 -  
24 - I assume you want Connecticut --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. PERRONE: Yeah, absolutely, all of  
2 Connecticut --

3 MR. EHRLICH: Yeah. Again, we don't have  
4 weather normalized state energy peaks, but I -- I can  
5 find the forecast for Connecticut from 2002.

6 MR. PERRONE: Okay. So then the -- the  
7 historical data will be the actual rather than --

8 MR. EHRLICH: Yes.

9 MR. PERRONE: Okay. That's all right.  
10 That's all I have. Thank you.

11 CHAIRMAN STEIN: Thank you. We'll now go  
12 from -- questions from the Council. Professor Tait.

13 MR. TAIT: No questions at this time.

14 CHAIRMAN STEIN: Mr. Wilensky.

15 MR. EDWARD S. WILENSKY: Yes. Maybe --  
16 Mr. Karl, are there enough resources in Connecticut to  
17 supply the needs of Connecticut consumers we'll say for  
18 the coming summer -- for this coming year or is it going  
19 to be necessary to import energy from the other states,  
20 from Quebec and so forth and so on, or do you have an  
21 answer to that?

22 MR. KARL: I don't have a specific answer  
23 to that. I -- my guess is that there's probably enough,  
24 but I've never added it up that way, you know, because we

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 operate the market on a regional basis. And what we've -  
2 - what we always try to do is we try to run the most  
3 economic resources. So I've never added up, you know,  
4 Connecticut as a stand-alone.

5 MR. WILENSKY: Would you have any idea  
6 where the -- what the status of the Meriden -- the  
7 proposed Meriden facility and the Oxford, Connecticut  
8 facility stands in your projections, or do you have that  
9 information?

10 MR. KARL: In terms of its availability?

11 MR. WILENSKY: In other words, there are  
12 two plants that have -- that have been approved by the  
13 Connecticut Siting Council going back several years. One  
14 was in Meriden, Connecticut and one was in Oxford,  
15 Connecticut. I think it was Towantic Energy in Oxford  
16 and I'm not sure who has the permit at the present time,  
17 or for Meriden, because I think it's changed. Is that  
18 part of a projection as far as facilities that are used -  
19 - that would be considered as useful for your projections  
20 as far as the amount of energy in Connecticut?

21 MR. KARL: For this summer?

22 MR. WILENSKY: For the -- for the future,  
23 not necessarily this summer because neither one have been  
24 built.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. KARL: Okay. If the resource hasn't  
2 been built yet, we wouldn't be building that into the  
3 projection. What we end up doing is we -- you know, we  
4 operate a capacity market. And the goal of the capacity  
5 market is to procure the resources that would be needed  
6 to be system load. And through that market they are  
7 obligated to provide energy and capability to the system.  
8 And so we wouldn't really be counting on those resources  
9 until such time as they take on that supply obligation.  
10 They don't necessarily have to be constructed at the time  
11 they take on the obligation, but they would have to clear  
12 the market and assume that commitment.

13 MR. WILENSKY: As far as you are concerned  
14 are there more energy plants needed in Connecticut?

15 MR. KARL: At the present time, I don't  
16 think so. Although, you know, the --

17 (mic feedback)

18 COURT REPORTER: One moment please.

19 MR. WILENSKY: My ears hurt -- (laughter)  
20 --

21 (pause)

22 CHAIRMAN STEIN: Fortunately, the staff  
23 attorney also has other skills and abilities --  
24 (laughter).

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. KARL: And I guess there's two -- two  
2 versions of need. You know, the question would be, you  
3 know, do we have sufficient ability to make the electrons  
4 that we need --

5 MR. WILENSKY: Yes --

6 MR. KARL: -- that would be kind of one  
7 question. The other question would be are there more  
8 economic choices available. And through operating  
9 markets, we're actually trying to accomplish both. So  
10 from a need standpoint, I believe at the moment  
11 Connecticut is fine. As to whether there may be other  
12 resources available that could be more economic, that may  
13 well be.

14 MR. WILENSKY: Thank you -- thank you, Mr.  
15 Karl. Thank you, Mr. Chairman.

16 CHAIRMAN STEIN: Mr. Lynch, why don't we  
17 go to you and then --

18 MR. DANIEL P. LYNCH, JR.: Just to follow  
19 up, Mr. Karl, what -- as to what you just said, if the  
20 plants have not been built and -- would they have to go  
21 back into the cue and be evaluated for need as you just  
22 meant?

23 MR. KARL: Well the way the market works  
24 is we don't -- we're not evaluating the plant based on

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 need the way we would look at a transmission line for  
2 example. What would happen is if the plant obtains a cue  
3 position, and it retains that cue position, the cue  
4 position gives it the right to interconnect with the  
5 system. It also gives it the right to put a certain  
6 quantity of capacity onto the system. That's -- that  
7 sets the value of that resource in the capacity market in  
8 terms of what it's allowed to offer in the capacity  
9 market. Once it then clears in the market, it's assumed  
10 the obligation to provide that capacity. At that point  
11 we would count it. It would not necessarily need to be  
12 built at that point in time, but it would have -- we  
13 would have had to run the qualification process to assure  
14 ourselves that the plant in fact can be built by the time  
15 that commitment period comes -- becomes the prompt year.  
16 The market runs approximately three and a half years in  
17 advance. So you know, depending on the resource, if it's  
18 a peaking facility, it may just be a greenfield, you  
19 know, with contracts and so forth and the right to build  
20 on it. If it's a larger facility, you know, you may --  
21 the point when it takes on the obligation, it may already  
22 be under construction, but not finished yet.

23 MR. LYNCH: And is there a point where a  
24 plant could drop out of a cue position --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. KARL: Plants --

2 MR. LYNCH: -- is there a time limit I  
3 guess is what I'm saying?

4 MR. KARL: I want to try and remember all  
5 the cue rules -- they have the ability to drop out if  
6 they so choose. It sounded like you were asking whether  
7 -- whether they clock out and they basically get removed  
8 --

9 MR. LYNCH: That's -- that's what I'm  
10 asking.

11 MR. KARL: I would have to verify what  
12 that timing is.

13 MR. LYNCH: Thank you.

14 MR. KARL: Sure.

15 CHAIRMAN STEIN: Mr. Golembiewski.

16 MR. BRIAN GOLEMBIEWSKI: I just had one  
17 question. In regards to the diversification of fuel for  
18 the power plants in Connecticut, you know, we're trending  
19 towards natural gas as the predominant fuel source. Do  
20 you guys have any concerns regarding that --

21 MR. KARL: Well --

22 MR. GOLEMBIEWSKI: -- or are there any  
23 studies for anything or --

24 MR. KARL: Yeah, we -- we certainly do

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 have concerns about that. And that gets to the issue,  
2 you know, we were talking a moment ago where -- you know,  
3 the two types of need; you know, the one need is, you  
4 know, do you have sufficient capability to put the  
5 electrons in the system versus, you know, can you save  
6 money by moving to a different type of resource. What's  
7 been driving -- I mean there's a lot of reasons why we're  
8 seeing the fuel mix shift toward gas. You know,  
9 environmental issues are certainly a big part of it, but  
10 with the substantial decline in the price of natural gas,  
11 natural gas will become significantly more economic on  
12 the system. And so from a consumer standpoint, you know,  
13 for all consumers, we should certainly be glad to see the  
14 less expensive gas in the system.

15 At the same time though, the current  
16 numbers for New England as a whole indicate that  
17 approximately 52 percent of our total energy produced in  
18 New England is coming from natural gas, that's for last  
19 year. That is a very high number, a very high percentage  
20 on a single fuel. The ISO is concerned about that. And  
21 we've -- we've had a process underway under the banner of  
22 a strategic planning initiative where we've been working  
23 with state regulators, with the market participants, and  
24 to some degree with the FERC as well to determine what we

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 can do about that, what we should do about that, what  
2 makes sense for everyone to address that issue.

3 So that's -- that is an evolving issue.

4 It is -- it is very much in focus at the FERC. I was in  
5 a meeting last week where Commissioner Moller was talking  
6 about it. They're going to be holding public hearings.  
7 And I believe the plan is for the first public hearing to  
8 be held in New England because New England is more  
9 dependent on natural gas I believe than any other region.  
10 So it is a concern. We are looking to address it though,  
11 so it's not a concern that's kind of hanging out there  
12 unaddressed.

13 MR. GOLEMBIEWSKI: And -- and your  
14 strategic planning -- I mean one of the things, you know,  
15 that I would consider, you know, in an emergency  
16 situation where, you know, supply for whatever reason is  
17 cut off, how do you, you know, make sure you have other  
18 sources on-line to meet some type of immediate demand or  
19 --

20 MR. KARL: Right at the moment -- from --  
21 from that standpoint, right at the moment we are somewhat  
22 fortunate in that the New England region is long with  
23 respect to available resources in the system. So we do  
24 at the moment have several thousand megawatt -- megawatts

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 of surplus capability. Much of -- much of that  
2 capability actually is oil-fired. So we do at the moment  
3 have that kind of insurance policy to fall back on.  
4 Those resources are challenged. You know, it used to be  
5 -- if we look back ten years ago, those oil and coal  
6 resources used to provide some percent of our energy.  
7 Last year they were under five percent. So there is a  
8 question about their long-term viability. But at the  
9 moment anyway, they can serve as a lifeboat for us if  
10 something were to happen in the near term.

11 MR. GOLEMBIEWSKI: Do you know whether  
12 that lifeboat would be able to move over to Connecticut?

13 MR. KARL: Well it depends -- it depends  
14 on where the interruption would occur and it -- it would  
15 depend on the loading on the transmission system and then  
16 the available transmission. So you know, it -- it would  
17 depend on -- it would be very situation dependent.

18 MR. GOLEMBIEWSKI: Yeah. Okay, thank you.  
19 Thank you.

20 CHAIRMAN STEIN: Mr. Lynch.

21 MR. LYNCH: Just following up on Mr.  
22 Golembiewski's questioning, the -- we don't produce  
23 natural gas here in New England --

24 MR. KARL: No, we don't --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. LYNCH: -- so we've got to bring it  
2 here.

3 MR. KARL: Right.

4 MR. LYNCH: Is there any talk with the  
5 infrastructure of maybe creating a new pipeline to bring  
6 natural gas into Connecticut as the use for it grows?

7 MR. LYNCH: That is -- there is talk about  
8 the desirability of doing that. Within the strategic  
9 planning discussion, you know, there are -- there are  
10 some discussions along the lines of, you know, what, if  
11 anything, can we as a region do to incent the  
12 construction of something like that. And I -- and I do  
13 believe that there is a merchant proposal out there where  
14 people are considering the possibility of building a line  
15 I believe through Pennsylvania up here to New England.  
16 That would be a good thing for us. We would -- we would  
17 certainly like to see that.

18 MR. LYNCH: Thank you. Thank you, Mr.  
19 Chairman.

20 CHAIRMAN STEIN: Mr. Levesque.

21 MR. LARRY LEVESQUE: If the DC line  
22 connected --

23 COURT REPORTER: I'm sorry, Mr. Levesque,  
24 can you move the microphone.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. LEVESQUE: If the DC line proposed on  
2 the Canada border, Quebec, was -- was approved and built,  
3 how would the connection be to supplement Connecticut?

4 MR. KARL: It would depend on where the  
5 terminal point is because you -- you're building from  
6 Quebec down into New England. Obviously, the further  
7 south that line is built, the more helpful it would be to  
8 Connecticut.

9 We do -- within the system we are getting  
10 into a situation where we do have a north to south flow  
11 constraint. So resources in the northern part of New  
12 England -- we're moving toward a situation where  
13 resources in the northern part of New England are less  
14 valuable to southern New England. The question is  
15 whether -- whether the constraints that cause that to  
16 occur are a reliability issue or are they an economics  
17 issue. And so from a -- although my group doesn't do the  
18 need studies, the guys that are doing the need studies  
19 would have to determine whether the resolution of that  
20 constraint is needed for reliability or if it's needed  
21 for economics, and that then would determine how that  
22 constraint will be addressed.

23 MR. LEVESQUE: There's alternative  
24 proposals for the determination of that?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. KARL: Right off the -- the last that  
2 I was involved in it, which has been some time ago, I  
3 know there was discussion about -- if I remember there  
4 were three different potential end points for it, but  
5 it's been -- it's been a while since I've been involved  
6 with that because I don't do the transmission planning  
7 side.

8 MR. LEVESQUE: Alright, thank you.

9 MR. KARL: Sure.

10 CHAIRMAN STEIN: Senator Murphy.

11 MR. JAMES J. MURPHY, JR.: I have no  
12 questions, Mr. Chairman.

13 CHAIRMAN STEIN: Dr. Bell.

14 DR. BELL: Thank you, Mr. Chair. Just  
15 beginning with another follow-up to Mr. Golembiewski's  
16 question, when two companies recently came before us in  
17 2011, they each dutifully said that they had discussed  
18 the matter of the dual fuel requirement with you and ISO  
19 said it was fine. Subsequently, before you made your  
20 statement this afternoon, I also heard Mr. Van Wheely  
21 (phonetic) make the same statement as you made, more or  
22 less. If a company came to you today from Connecticut  
23 and said we'd like to get rid of the dual fuel  
24 requirement for ourselves, say Kleen Energy, which would

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 be unlikely, but just a pure hypothesis, would you say  
2 fine, as the companies last year told us you said?

3 MR. KARL: Well it -- I think the issue is  
4 -- we don't have within our FERC tariff really the  
5 ability to say no to that. You know, so it would be --  
6 as long as the resource is still qualified to put power  
7 onto the system with its primary fuel, at the moment, to  
8 my knowledge we don't have the ability to essentially  
9 require the continued operation of dual fuel. We -- we  
10 do require the ability to put power on the system, but to  
11 my knowledge, we don't have the ability to say anything  
12 other than well okay go ahead.

13 Within the strategic planning process  
14 though and in discussion, the question is whether there  
15 should be incentives for dual fuel so that they would  
16 choose not to do away with that equipment or should in  
17 fact there be a requirement that would then be built into  
18 our FERC tariff so that we could require certain  
19 characteristics, whether it be dual fuel or firm fuel,  
20 because if somebody has -- let's say somebody had, you  
21 know, firm rights for the pipeline, would we necessarily  
22 want them to also have dual fuel or not --

23 DR. BELL: Yeah, I see --

24 MR. KARL: -- so what we'd be looking to

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 do --

2 DR. BELL: Yeah --

3 MR. KARL: -- is to get to the economic  
4 choice. And so that is within the scope of what we're  
5 considering in the strategic planning process.

6 DR. BELL: Okay, thank you. Can you tell  
7 us the status of the -- of demand resources in terms of  
8 whether they can participate in the ancillary services  
9 market or the forward reserve market?

10 MR. KARL: At the moment, I don't believe  
11 that they do participate in those markets. They do  
12 participate as a capacity resource, so you know, they  
13 count for capacity. The reason I slightly hesitated  
14 there is I'm not sure if the emergency generator category  
15 is allowed to or not, but I don't think that they are at  
16 the moment. I know that that's been an issue that people  
17 have been considering for some time, as to how -- how we  
18 could bring them into the reserves market.

19 DR. BELL: Is there any sense of progress  
20 because this is probably the third or fourth year I've  
21 asked this question?

22 MR. KARL: That used to be my  
23 responsibility in the market development area. I'm --  
24 I'm not actually sure where that stands right now.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 DR. BELL: Thank you. Regarding the  
2 public policy and the coordination clauses in the FERC  
3 Order 1000, my question is has either of these clauses  
4 affected your assessment of the NEEWS plan for  
5 Connecticut in any way, and could you explain?

6 MR. KARL: That -- actually, I can't  
7 address that one because my group doesn't get involved in  
8 the transmission planning side of things. We primarily  
9 focus on the resource adequacy side. So in terms of --  
10 you know, my knowledge would just be cursory at best.

11 DR. BELL: Okay. Nobody else here can  
12 take a whack at that one? Alright.

13 Can you tell us how the ISO 2011 peak for  
14 the RSP compared with the forecast that was -- I'm sorry,  
15 I'm looking at the wrong one -- can you tell us how the  
16 actual 2011 peak compared with the forecast that covered  
17 that period?

18 MR. EHRLICH: After you weather normalize  
19 that particular day, and then -- essentially we  
20 constitute that day for the active demand resources that  
21 were called. And when you compare it to our forecast,  
22 because our forecast doesn't include the passive  
23 resources, we would constitute the actual -- for the  
24 passive available -- it fell around the 85/15 peak, just

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 under the extreme peak.

2 DR. BELL: Thank you. If you're  
3 considering renewable resources and integrating those  
4 into the ISO system, wind has several issues. We know  
5 that it has variability issues, remoteness issues, and  
6 issues regarding weather forecasting. My question, since  
7 wind has been covered pretty thoroughly in a number of  
8 ISO reports, would you say that integrating solar has the  
9 same issues?

10 MR. KARL: It has -- it definitely has  
11 similar issues. One -- I think one advantage that solar  
12 has, at least in New England anyway, over wind is that  
13 the production of solar tends to be very coincident with  
14 the peak load. So in other words, on a hot day when the  
15 sun is shining, you need a lot of electricity and your  
16 solar panels are working well. One of the issues that  
17 wind has a lot of the time is on hot days, it's not  
18 blowing. So solar has that advantage going for it. Of  
19 course it doesn't work at night, so it has -- you know,  
20 it has those issues as well. So it has -- I would say  
21 solar and wind have similar sorts of issues, but not the  
22 same because of the difference in the characteristics,  
23 variability and so forth.

24 DR. BELL: Thank you. Those are my

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 questions, Mr. Chair.

2 CHAIRMAN STEIN: Okay. We'll now go to  
3 see if any of the other parties wish to cross-examine.  
4 So I'll just go down and whoever represents them, just --  
5 FirstLight Power Enterprise?

6 MR. KENNETH BALDWIN: No questions, Mr.  
7 Chairman.

8 CHAIRMAN STEIN: Dominion Nuclear?

9 MR. BALDWIN: No questions.

10 CHAIRMAN STEIN: NRG? Is there anybody  
11 from NRG?

12 MR. TAIT: I don't see anyone.

13 CHAIRMAN STEIN: Then I guess that means  
14 no questions. Connecticut Municipal Electric --

15 MS. ROBIN KIPNIS: No questions.

16 CHAIRMAN STEIN: Thank you. UI?

17 MR. BRUCE MCDERMOTT: No questions. Thank  
18 you, Mr. Chairman.

19 CHAIRMAN STEIN: CL&P?

20 MR. STEPHEN GIBELLI: No questions.

21 CHAIRMAN STEIN: Okay, that would end it  
22 at this point for ISO. Thank you all for coming and --

23 MR. KARL: Thank you.

24 MR. O'CONNOR: Thank you.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 CHAIRMAN STEIN: -- I guess you should  
2 stick around and see if you have any questions for  
3 others.

4 So I guess the next will be FirstLight  
5 Power.

6 (pause)

7 MR. BALDWIN: Good afternoon, Mr. Chairman  
8 and members of the Council. I'm Kenneth Baldwin with  
9 Robinson and Cole here today on behalf of FirstLight  
10 Power Resources.

11 Our witness today is Mr. Eric DeBarba. Mr.  
12 DeBarba is the Long-Term Asset Manager for FirstLight  
13 Power Resources Services, LLC, and I offer him to be  
14 sworn at this time.

15 CHAIRMAN STEIN: Alright, thank you.

16 (Whereupon, Eric DeBarba was duly sworn  
17 in.)

18 MS. BACHMAN: Thank you.

19 MR. BALDWIN: Mr. Chairman, we have two  
20 exhibits to offer into this docket. They are listed in  
21 the hearing program as FirstLight's Report of Forecast of  
22 Loads and Resources, dated March 15, 2012, and  
23 FirstLight's Responses to the Council's Interrogatories,  
24 dated April 23, 2012. And I offer them for

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 identification purposes subject to verification.

2 CHAIRMAN STEIN: Okay. Are there any  
3 objections at this point? Hearing and seeing none,  
4 continue please.

5 (Whereupon, FirstLight Power Resources  
6 Exhibit No. 1 and No. 2 were marked for identification  
7 purposes.)

8 MR. BALDWIN: Thank you, Mr. Chairman.  
9 Mr. DeBarba, did you prepare or assist in the preparation  
10 of the exhibits listed in the hearing program, the Load  
11 and Forecast Report and the interrogatory responses?

12 MR. ERIC DEBARBA: Yes, I did.

13 MR. BALDWIN: And do you have any  
14 corrections, additions, or deletions to offer at this  
15 time?

16 MR. DEBARBA: I do not.

17 MR. BALDWIN: And is the information  
18 contained in those exhibits true and accurate to the best  
19 of your knowledge?

20 MR. DEBARBA: Yes, it is.

21 MR. BALDWIN: And do you adopt that  
22 information today as your testimony?

23 MR. DEBARBA: I do.

24 MR. BALDWIN: Mr. Chairman, I offer -- I

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 offer them as full exhibits.

2 CHAIRMAN STEIN: Does any party or  
3 intervenor object to the admission of these exhibits?  
4 Hearing and seeing none, the exhibits are admitted.

5 (Whereupon, FirstLight Power Resources  
6 Exhibit No. 1 and No. 2 for identification were received  
7 into evidence as full exhibits.)

8 CHAIRMAN STEIN: We'll now go on to the  
9 cross-examination. Mr. Perrone.

10 MR. PERRONE: Thank you, Mr. Chairman.  
11 How often are seasonal claim capability audits performed  
12 by FirstLight?

13 MR. DEBARBA: We -- we have a variety of  
14 assets, and I'll break them into really two groups. The  
15 larger assets are run twice a year, summer and the  
16 winter. We have a lot of small hydros that are  
17 considered intermittent as a label, and they don't  
18 actually run separate tests. They are basically judged  
19 based on how much power are produced during so-called  
20 reliability hours, which are discreet hours in the summer  
21 period or the winter period.

22 MR. PERRONE: Okay. Of the units listed in  
23 your forecast report, could you tell us which ones are  
24 base load, intermediate, or peaking units?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. DEBARBA: Sure. The peaking units are  
2 Rocky River, which is a pump storage facility; Tunnel 10,  
3 which is a gas turbine; and Waterbury Generation, also a  
4 gas turbine. The remainder are all hydro units. And by  
5 their very nature they're considered base load in a  
6 sense, except that our two large ones, Shepaug and  
7 Stevenson, are more true base loads, the others are what  
8 we call intermittent, they're run-of-river, and basically  
9 whatever water is coming into the units. We use the  
10 units on an instantaneous basis. So during periods --  
11 summer periods, particularly when the water level is  
12 really low, they may not run at all.

13 MR. PERRONE: So units like that aren't  
14 necessarily dispatched, you just run them as much as you  
15 can?

16 MR. DEBARBA: That's correct.

17 MR. PERRONE: And the Rocky River pump  
18 storage facility, do you run that daily or is that just  
19 kind of reserved for high/low days?

20 MR. DEBARBA: Yeah, Rocky River is a  
21 forward reserve unit, so we are basically keeping it in  
22 reserve for the ISO. And the ISO will basically -- you  
23 know, they -- they set a strike price above that price to  
24 allow them to run. But at Rocky, we -- we run it very

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 infrequently. We have limitations on how much it can  
2 run. And right now we have about 18 inches of water that  
3 we can go down to. And that equates to about 60 hours  
4 worth of operation.

5 MR. PERRONE: Okay. Do you have any plans  
6 for new generating facilities or power upgrades to  
7 existing facilities?

8 MR. DEBARBA: The only one that we are,  
9 you know, in some consideration on is Scotland. It's a  
10 very small facility, probably a little less than one-  
11 megawatt of an upgrade.

12 MR. PERRONE: How has the adoption of RPS  
13 affected your operations?

14 MR. DEBARBA: Well it's been positive from  
15 the standpoint of our Tunnel hydro unit and our Taftville  
16 hydro unit. Both of those have now been upgraded to  
17 Connecticut Class 1 status. The extra revenue is helpful  
18 to us and allows us to make investments in the facility  
19 and keep them upgraded.

20 The two facilities that come to mind that  
21 we would like to see some added help on are Bulls Bridge  
22 in Falls Village up in the northwestern corner of  
23 Connecticut. Those units are about a hundred years old  
24 now. They performed very well over their history, but

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 they're -- they're in need of some additional repair. It  
2 would be great if they were to be able to qualify for the  
3 renewable portfolio standard measures, but they're just a  
4 little bit shy of the mark of a 5-megawatt nameplate  
5 rating. They're more like 10. And so that little  
6 difference makes big world of difference in their ability  
7 to reach some funding levels that would help them, you  
8 know, continue.

9 MR. PERRONE: Okay. Have there been any  
10 recent changes in environmental standards that have  
11 affected your operations?

12 MR. DEBARBA: Well the one that comes to  
13 mind is Rocky River. As I said, it's a pump storage unit  
14 and it pumps up from the Housatonic River. And there is  
15 a concern with Zebra Mussels, which are an invasive  
16 species, coming into Connecticut. We haven't seen them  
17 in Candlewood Lake, which is the upper reservoir, yet.  
18 But we are taking precautions, and this year we're  
19 voluntarily not pumping during the summer months.

20 MR. PERRONE: Thank you. That's all I  
21 have.

22 CHAIRMAN STEIN: Thank you. Professor  
23 Tait.

24 MR. TAIT: You mentioned Scotland as a

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 potential generating facility?

2 MR. DEBARBA: Well Scotland is currently a  
3 hydro. It's kind of been a longstanding unit. It's in a  
4 FERC relicensing stage right now and we are -- it has  
5 sufficient water, during -- particularly during winter  
6 periods to basically run some additional output. So we  
7 are looking at putting in what we call a mini-flow  
8 turbine in there that would generate maybe another half  
9 to one megawatt.

10 MR. TAIT: What river is it on?

11 MR. DEBARBA: I think it's Shetucket.

12 MR. TAIT: That sounds right.

13 MR. GOLEMBIEWSKI: Yes.

14 MR. DEBARBA: Yes. Brian knows --

15 MR. GOLEMBIEWSKI: Yeah, the Shetucket.

16 MR. TAIT: And there's one in  
17 Robertsville?

18 MR. DEBARBA: There is a facility in  
19 Robertsville close to the Massachusetts border. It's a  
20 run-of-river facility. There's really not much  
21 additional water to be had there.

22 MR. TAIT: Does it get licensed like other  
23 dams --

24 MR. DEBARBA: Let me just check here --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1       Robertsville is not a FERC licensed facility.

2                       MR. TAIT:  And that's because it's too  
3       small?

4                       MR. DEBARBA:  It's too small, yeah.

5                       MR. TAIT:  Is there any thoughts of  
6       removing any of those dams because of age or to get run-  
7       of-river for -- any --

8                       MR. DEBARBA:  Not at this point.

9                       MR. TAIT:  Thank you.

10                      MR. DEBARBA:  You're welcome.

11                      CHAIRMAN STEIN:  Mr. Wilensky.

12                      MR. WILENSKY:  Out of curiosity, where is  
13       Robertsville?

14                      MR. DEBARBA:  Robertsville is near --  
15       north of Winsted, Connecticut --

16                      MR. WILENSKY:  Okay --

17                      MR. DEBARBA:  -- by 10 miles maybe, or  
18       something like that, but close to the Massachusetts  
19       border.

20                      MR. WILENSKY:  With the Waterbury plant  
21       have you -- do you come on-line very often or are you  
22       consistently on-line, or do you just come on-line when  
23       it's -- when it's needed as a peaking plant?

24                      MR. DEBARBA:  It's -- it's the latter.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 It's when it's called upon as a peaking unit. It's --  
2 it's got a dispatch price that's, you know, above the  
3 base load price --

4 MR. WILENSKY: Has it come on-line --

5 MR. DEBARBA: -- but it's not unusual for  
6 it to run maybe an hour or two during, you know, kind of  
7 warmer days or days when the price might start to pump up  
8 a little bit.

9 MR. WILENSKY: Has it come on-line very  
10 often?

11 MR. DEBARBA: I would say it runs a fair  
12 amount, yeah. Yeah. But probably less than half the  
13 days, but, you know, maybe a hundred days in the year.

14 MR. WILENSKY: So it's been -- it's been  
15 an asset?

16 MR. DEBARBA: Oh, yes. It has, yes,  
17 definitely.

18 MR. WILENSKY: And as an aside to this,  
19 when you built that plant, you had various agreements  
20 with the City of Waterbury. Did those all come to  
21 fruition, such as a walking trail or a park or something  
22 like that --

23 MR. DEBARBA: I --

24 MR. WILENSKY: -- that was a tradeoff with

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 the city?

2 MR. DEBARBA: I know there were a number  
3 of agreements --

4 MR. WILENSKY: Yes --

5 MR. DEBARBA: -- that were negotiated. To  
6 my knowledge, we've lived up to our -- to our  
7 obligations on those. But I'm not -- I'm not familiar  
8 with the details --

9 MR. WILENSKY: That's not in your job  
10 description, right, Mr. --

11 MR. DEBARBA: I don't know those -- those  
12 details with --

13 MR. WILENSKY: Okay, thank you. Thank  
14 you, Mr. Chairman.

15 CHAIRMAN STEIN: Thank you. Mr.  
16 Golembiewski.

17 MR. GOLEMBIEWSKI: No questions. Thank  
18 you.

19 CHAIRMAN STEIN: Mr. Lynch.

20 MR. LYNCH: No questions, Mr. Chair.

21 CHAIRMAN STEIN: Mr. Levesque.

22 MR. LEVESQUE: No questions.

23 CHAIRMAN STEIN: Senator Murphy.

24 MR. MURPHY: No questions, Mr. Chairman.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 CHAIRMAN STEIN: Dr. Bell.

2 DR. BELL: Thank you, Mr. Chair. Does  
3 FirstLight have any problems with the stream flow  
4 standards adopted by the legislature?

5 MR. DEBARBA: I'm not -- I'm not familiar  
6 with those standards.

7 DR. BELL: Okay.

8 COURT REPORTER: One moment please.

9 (pause - tape change)

10 DR. BELL: So you don't think you are  
11 involved in the negotiations about them?

12 MR. DEBARBA: It's -- it's possible. I --  
13 I'm just not familiar --

14 DR. BELL: Okay, thank you --

15 MR. DEBARBA: -- I mean we -- we can -- I  
16 could find out and get back to you.

17 DR. BELL: Thank you. The rainfall in  
18 Connecticut -- going back now to other parts of the hydro  
19 operations -- has been increasing. At the same time we  
20 have more extreme weather patterns, so we have more long  
21 droughts and then periods of intense rain, all of which  
22 is predicted by climate change projections. But climate  
23 change projections, as we know, are a little iffy. So my  
24 question to you is simply how do you -- have you

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 attempted to deal with those kinds of weather  
2 predictions, which are of course different than the --  
3 than just going by historical patterns, or do you just  
4 merely say -- kind of do an end run and say well that  
5 will -- those climate change predictions exist and they  
6 simply increase the uncertainty in our normal uncertainty  
7 bars for weather?

8 MR. DEBARBA: I think it's more the  
9 latter. If you'll look at our exhibit, you can see the  
10 hydro generation we have over the last just five years  
11 for instance, it has quite a bit of variance to it. And  
12 we know for instance in the 2011 year there was -- we had  
13 a record snowfall, there was a lot of precipitation.  
14 This year by contrast, it's dropped quite a bit. So if  
15 you were to say yes it's increasing, you would have been  
16 wrong this year. But I think for some of our facilities,  
17 which are run-on-river, basically all the water that  
18 comes in basically leaves, so it almost doesn't matter.  
19 There's not much we can do. So the water that is passing  
20 through the facility, we use it the best we can, but it  
21 doesn't really matter that much. And based on  
22 prediction, we're going to -- it's going to be what it  
23 is.

24 DR. BELL: Okay, thank you. Those are my

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 questions, Mr. Chair.

2 CHAIRMAN STEIN: Okay. Professor Tait.

3 MR. TAIT: How many power plants do you  
4 have that are not licensed by the FERC? There's  
5 Robertsville.

6 MR. DEBARBA: Bantam --

7 MR. TAIT: Bantam --

8 MR. DEBARBA: -- Robertsville --

9 MR. TAIT: A little slower, sir. Bantam.

10 MR. DEBARBA: Robertsville.

11 MR. TAIT: Yeah.

12 MR. DEBARBA: Taftville.

13 MR. TAIT: Taftville, okay.

14 MR. DEBARBA: And Tunnel.

15 MR. TAIT: The last one?

16 MR. DEBARBA: Tunnel.

17 MR. TAIT: Tunnel. And where is Tunnel?

18 MR. DEBARBA: That's in the eastern part  
19 of the state. I think that's maybe also on the Shetucket  
20 River.

21 MR. GOLEMBIEWSKI: In Norwich.

22 MR. TAIT: Norwich. Taftville is Norwich  
23 too, isn't it? So these don't come up to be relicensed  
24 by FERC?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. DEBARBA: That's correct.

2 MR. TAIT: Are they economical -- from  
3 your point of view -- from an economical point of view  
4 are they worth running?

5 MR. DEBARBA: Oh, yes, definitely. And  
6 particularly Taftville and Tunnel, which are -- which are  
7 considered renewable units, Connecticut Class 1  
8 renewables.

9 MR. TAIT: How about the others?

10 MR. DEBARBA: The others, it's not as  
11 economic, but they -- they still are -- they --

12 MR. TAIT: Don't they -- don't they  
13 require some maintenance --

14 MR. DEBARBA: Oh, yes. Yeah.

15 MR. TAIT: Does Robertsville pay for  
16 itself?

17 MR. DEBARBA: It's a close call.

18 MR. TAIT: What other ones are close  
19 calls? Scotland you're going to improve?

20 MR. DEBARBA: No, Scotland is -- is viable  
21 --

22 MR. TAIT: Yes --

23 MR. DEBARBA: I would say the ones that  
24 are more marginal would be Robertsville and Bantam.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. TAIT: Thank you.

2 CHAIRMAN STEIN: Okay, now we'll see if  
3 there are any questions from any of the other parties.  
4 First, ISO, do you have any questions?

5 MR. O'CONNOR: No, thank you.

6 CHAIRMAN STEIN: Dominion? NRG?  
7 Connecticut Municipal?

8 MS. KIPNIS: No questions.

9 CHAIRMAN STEIN: UI?

10 MR. MCDERMOTT: No questions, thank you.

11 CHAIRMAN STEIN: CL&P?

12 MR. GIBELLI: No questions.

13 CHAIRMAN STEIN: Okay, thank you. I  
14 guess, Mr. Baldwin, you can stay seated and the next  
15 would be Dominion.

16 (pause)

17 MR. BALDWIN: Mr. Chairman, I'd like to  
18 introduce a new face for Dominion this year at the load  
19 and forecast hearing. This is Kevin Hennessey. Kevin is  
20 the Director of Federal, State, and Local Affairs for New  
21 England for Dominion Resources, Incorporated, stationed  
22 at Millstone and has replaced longstanding witness Dan  
23 Weekley at these proceedings. I would offer him to be  
24 sworn at this time.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 CHAIRMAN STEIN: Okay.

2 (Whereupon, Kevin Hennessey was duly sworn  
3 in.)

4 MS. BACHMAN: Thank you.

5 MR. BALDWIN: Mr. Chairman, Dominion has  
6 two exhibits to offer in these proceedings; its March 1,  
7 2012 Report of Forecast of Loads and Resources and its  
8 May 10, 2012 Interrogatory Responses to the Council's  
9 questions. And I offer them at this time for  
10 identification purposes subject to verification by Mr.  
11 Hennessey.

12 CHAIRMAN STEIN: Is there any objection?  
13 Hearing and seeing none, please verify.

14 MR. BALDWIN: Thank you.

15 (Whereupon, Dominion Exhibit No. 1 and No.  
16 2 were marked for identification purposes.)

17 MR. BALDWIN: Mr. Hennessey, did you  
18 prepare or assist in the preparation of the two exhibits  
19 listed in the hearing program?

20 MR. KEVIN HENNESSEY: Yes.

21 MR. BALDWIN: Do you have any corrections,  
22 modifications, edits, or deletions to offer at this time?

23 MR. HENNESSEY: No.

24 MR. BALDWIN: Is the information contained

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 in those exhibits true and accurate to the best of your  
2 knowledge?

3 MR. HENNESSEY: Yes.

4 MR. BALDWIN: And do you adopt the  
5 information contained in those exhibits as your testimony  
6 today?

7 MR. HENNESSEY: Yes, I do.

8 MR. BALDWIN: Thank you. Mr. Chairman, we  
9 offer them as full exhibits.

10 CHAIRMAN STEIN: Are there any objections  
11 to -- to the -- to these exhibits? Hearing and seeing  
12 none, the exhibits are admitted.

13 (Whereupon, Dominion Exhibit No. 1 and No.  
14 2 for identification were received into evidence as full  
15 exhibits.)

16 CHAIRMAN STEIN: We'll now go to cross-  
17 examination first by staff. Mr. Perrone.

18 MR. PERRONE: Thank you, Mr. Chairman.  
19 How often are seasonal claim capability audits performed  
20 for ISO on the Millstone facility?

21 MR. HENNESSEY: At Millstone they're twice  
22 a year. There is a summer audit and a winter audit. The  
23 summer audit is between June 1st and September 15th. And  
24 the winter audit falls between November 1st and April

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 15th.

2 MR. PERRONE: Are any further power  
3 upgrades or uprates to Millstone 2 or 3 planned or  
4 considered at this time?

5 MR. HENNESSEY: No.

6 MR. PERRONE: And both units are base  
7 load, is that correct?

8 MR. HENNESSEY: That's correct.

9 MR. PERRONE: How many months apart are  
10 the refueling performed for a given unit?

11 MR. HENNESSEY: Each unit at the plant  
12 during outage is 18 months.

13 MR. PERRONE: The Council approved a  
14 petition in late 2010 for Dominion's replacement of the  
15 normal station service transformer and the reserve  
16 station service transformer for Unit 2. Has construction  
17 been completed?

18 MR. HENNESSEY: Yes, it has.

19 MR. PERRONE: How would Millstone be  
20 affected by the EPA proposed cooling water intake  
21 structure rule expected to be effective July 2012?

22 MR. HENNESSEY: That's a great question.  
23 That's where I think like a lawyer and say it depends.  
24 We're still kind of waiting to see what the decision will

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 be from EPA. It's anticipated or scheduled to be July  
2 27th of this year. I'm hearing rumblings that it's  
3 likely that that will be delayed. So we're waiting on  
4 that.

5 And there's really two -- two factors with  
6 the recent -- there's impingement and entrainment.  
7 Impingement is some of the material that gets stuck on  
8 the intake structure, and entrainment is what goes  
9 through the system. Impingement will be a federal rule  
10 that's kind of nation-wide. Whereas the entrainment side  
11 is going to be left more to the states and it's going to  
12 be more actually on a case-by-case basis based on the  
13 facility. So 316B impacts not just power generation but  
14 anyone that uses cooling water, so large industrial  
15 facilities. I believe the number in Connecticut is  
16 about, you know, 12 to 15 facilities that will be  
17 affected by this. And it's too soon to tell right now  
18 what that impact will be.

19 The one caveat I'll say is, you know, I  
20 think when -- when you ask this question, I take it that  
21 people start thinking about cooling towers down the road  
22 and what's the likelihood of that. That's never been  
23 done as a retrofit at a nuclear facility. So -- that's  
24 one thing I do know for sure. So if it does go down that

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 road, you know, it's a significant impact, because it's  
2 something that's never -- never been done here.

3 MR. PERRONE: What is the status of the  
4 effort to establish a national repository for spent  
5 fuel?

6 MR. HENNESSEY: Another very good  
7 question. That has become a political hot potato. And  
8 at this point in time, you know, Yucca Mountain, the --  
9 the application has been withdrawn. And we had the Blue  
10 Ribbon Commission that the President created to look into  
11 spent fuel and some recommendations. DOE is scheduled to  
12 respond -- I believe it's July this year. It was six  
13 months after the Blue Ribbon Commission's recommendations  
14 came forward. So it's a hot topic down in D.C. There's  
15 a lot of action. I know that the House is busy working  
16 on legislation to try to address this issue. But given,  
17 you know, who's in power and what branch of government  
18 and the -- the kind of the natural rub, it doesn't look  
19 like it's going to be resolved anytime soon.

20 MR. PERRONE: Is there any movement to  
21 begin -- or at least to consider reprocessing spent  
22 fuel?

23 MR. HENNESSEY: Not that I'm aware of,  
24 no.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. PERRONE: Okay. Thank you. That's  
2 all I have.

3 CHAIRMAN STEIN: Okay. Professor Tait.

4 MR. TAIT: What do other countries do with  
5 their spent fuel? Which countries in the world have  
6 mostly nuclear power?

7 MR. HENNESSEY: Other -- other countries  
8 are reprocessing their fuel --

9 MR. TAIT: These plants, for example, what  
10 do they do with their spent fuel?

11 MR. HENNESSEY: They reprocess their fuel  
12 --

13 MR. TAIT: A hundred percent?

14 MR. HENNESSEY: My understanding is they -  
15 - they reprocess it a hundred percent. And what happens  
16 is there's still ultimately some waste, but it's much  
17 less so --

18 MR. TAIT: Where does it -- where does it  
19 go?

20 MR. HENNESSEY: Where does their waste go?  
21 They have -- they -- I believe they have a national  
22 repository there.

23 MR. TAIT: Somewhere in France? What does  
24 -- what does England do?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. HENNESSEY: I believe they also  
2 reprocess their waste. I think we're one of the --  
3 we're one or the only countries that doesn't reprocess to  
4 my understanding. And I think that was -- that dates  
5 back to the Carter administration and really dealt more  
6 with weapon proliferation and potential concerns with --

7 MR. TAIT: What other countries in the  
8 world are heavily nuclear powered?

9 MR. HENNESSEY: There's -- there's nuclear  
10 units throughout Europe. There's some in Asia. Everyone  
11 is aware of Japan. They've shut down most of -- all of  
12 their fleet. However, there's talks as recently as over  
13 this weekend that they're starting to try to turn some of  
14 those units back on-line.

15 MR. TAIT: Do they all reprocess their  
16 fuel except us?

17 MR. HENNESSEY: To my knowledge yes, we're  
18 -- we're one of the few that doesn't.

19 MR. TAIT: When we start thinking of a  
20 national depository, that means finding some place to put  
21 it. Like you said, it's a hot potato, and I'm sure it's  
22 political. There's also the problem of getting it  
23 there.

24 MR. HENNESSEY: There's transportation,

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 correct.

2 MR. TAIT: So if you -- if Yucca Mountain  
3 was selected, how would everybody get it there without  
4 causing states that would object? Would that be part of  
5 the federal legislation?

6 MR. HENNESSEY: That -- that's one of the  
7 concerns, there would be objection, but it would be  
8 transported by DOE in spent fuel canisters. Whether it's  
9 rail or freight or truck, you know, I'm not quite sure.  
10 I think it depends on each site and where it ultimately -  
11 -

12 MR. TAIT: And I assume federal preemption  
13 would say it goes over your highway whether you like it  
14 or not.

15 MR. HENNESSEY: If they were able to  
16 construct the repository, I would imagine they would have  
17 that ability --

18 MR. TAIT: I can't imagine somebody saying  
19 -- like Ohio saying don't go through Ohio. So all of our  
20 plants in the United States are now stored on site --

21 MR. HENNESSEY: Correct --

22 MR. TAIT: -- the fuel --

23 MR. HENNESSEY: Correct.

24 MR. TAIT: How long is that going to last?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. HENNESSEY: How long will that last?  
2 Until there's a national repository.

3 MR. TAIT: So -- take Connecticut for  
4 example, we can expect to have more spent fuel and more  
5 applications to put canisters in the backyard of power  
6 plants?

7 MR. HENNESSEY: Well it would just be at  
8 the existing site, which is --

9 MR. TAIT: Yes --

10 MR. HENNESSEY: -- which is Millstone.  
11 Yes, we're storing all our fuel on site. And we will  
12 until there's a national repository.

13 MR. TAIT: And how far are you along in  
14 filling up what you have out there that we've approved?

15 MR. HENNESSEY: Currently, we have 19  
16 canisters that are built, and 14 are filled. We also  
17 store fuel in our spent fuel pool. So you know, 1, which  
18 stopped operation in 1998 is in safe storage in the spent  
19 fuel --

20 MR. TAIT: How long does it take you to  
21 fill up one of the canisters?

22 MR. HENNESSEY: We've got -- we've got  
23 enough -- we've got a plan that was approved by this  
24 Siting Council to do -- up to 135. We've got the

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 permission to build a pad to do 49 modules, which would  
2 run us through our licensed life of 2035 for Unit 2 and  
3 2045 for Unit 3, which would have a full load reserve in  
4 the spent fuel pool, as well as taking some of that fuel  
5 out of the spent fuel pool and putting it into dry cask  
6 storage.

7 MR. TAIT: Do all the states use the same  
8 sort of depository -- on-site depository stuff?

9 MR. HENNESSEY: Well there's different  
10 ways to store it. You can store it in the spent fuel  
11 pool --

12 MR. TAIT: Yeah --

13 MR. HENNESSEY: -- or -- or in dry cask.  
14 And there's -- in Connecticut for instance, my  
15 understanding is that Haddam has vertical dry cask  
16 storage. We use horizontal. So there's -- there's  
17 different manufacturers, different containers, but it's  
18 the same --

19 MR. TAIT: Describe vertical? Does it go  
20 into the ground or --

21 MR. HENNESSEY: No, it's above ground.  
22 It's on -- it's on a concrete pad or slab. It's just --  
23 it's vertical. It stands -- you know, it's a concrete  
24 vertical structure. Whereas at Millstone, we have

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 horizontal structures.

2 MR. TAIT: About how high? So how long is

3 --

4 MR. HENNESSEY: At Millstone with the  
5 horizontal -- I don't have the exact figure. I would  
6 estimate it around 15 feet.

7 MR. TAIT: How about the vertical?

8 MR. HENNESSEY: I don't know that. A  
9 little taller, but I don't know.

10 MR. TAIT: Thank you.

11 CHAIRMAN STEIN: Mr. Ashton.

12 MR. PHILIP T. ASHTON: Going back to the  
13 rest of the world, as part of utilizing spent fuel is  
14 there a technology that the French have that is somewhat  
15 unique?

16 MR. HENNESSEY: I -- I don't know what  
17 their -- what --

18 MR. ASHTON: I'm thinking of the super  
19 Phoenix reactor.

20 MR. HENNESSEY: I'm unfamiliar with that.  
21 I -- I know that they are able to reprocess. I don't  
22 know if it's unique from the rest of the world. I know  
23 the technology has evolved since -- since --

24 MR. ASHTON: Let me try it a little

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 different way. Are you aware of a breeder reactor?

2 MR. HENNESSEY: I'm sorry, I didn't hear  
3 you.

4 MR. ASHTON: A breeder reactor.

5 MR. HENNESSEY: I'm not familiar with that  
6 reactor --

7 MR. ASHTON: Okay. I have no further  
8 questions.

9 CHAIRMAN STEIN: Mr. Wilensky.

10 MR. WILENSKY: What -- what fuel rods go  
11 into the storage on site, from Millstone 1 or Millstone 2  
12 or 3, or recent ones, or the older ones?

13 MR. HENNESSEY: Right now -- I assume  
14 you're talking about the dry cask storage on our site?

15 MR. WILENSKY: Yes.

16 MR. HENNESSEY: Right now it's just Unit  
17 2. It's been approved for Unit 2 and 3 --

18 MR. WILENSKY: And what -- what happens  
19 with -- from Unit 1? Where are they --

20 MR. HENNESSEY: Unit 1 is in a spent fuel  
21 pool in the Unit 1 building. It's still on-site. It's  
22 stored on site, but it's in a wet spent fuel pool versus  
23 the dry cask storage.

24 MR. WILENSKY: I think years ago some of

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 us visited the site, so I have some idea of what you're  
2 talking about. But how long do they last? Forever? In  
3 other words, do they run out of steam, run out of gas  
4 after 30 or 40 years, or whatever?

5 MR. HENNESSEY: Well I mean they -- they -  
6 - they continuously degrade. And so right now some of  
7 the spent -- the Unit 1 spent fuel pool is at a  
8 temperature where it continuously is going down. And my  
9 understanding is it won't -- it's -- about 145 degrees is  
10 the maximum it can get even without cooling. And we have  
11 cooling in place right now in the fuel pool. So over  
12 time it just degrades and it's just, you know, a passive  
13 system. The dry cask storage -- it could stay there  
14 theoretically as long as the structure of the concrete  
15 and the canister are intact. It's --

16 MR. WILENSKY: But --

17 MR. HENNESSEY: -- it's a passive system.

18 MR. WILENSKY: -- do they degrade where  
19 they're down to we'll say zero without any -- where they  
20 can be removed without any problems --

21 MR. HENNESSEY: They can --

22 MR. WILENSKY: -- or is that never?

23 MR. HENNESSEY: They can -- they're  
24 storage stable and they can be removed safely, but the --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 I think the -- the national repository is what the  
2 government decided it wanted to do to have it all in one  
3 place. And that's what we believe is the prudent and the  
4 best answer to have this spent material in one place, but  
5 it is safe where it is for the time being.

6 MR. WILENSKY: You haven't really utilized  
7 that storage on site that much. And -- in other words,  
8 the amount that's in there was in there the last time  
9 that we -- that you folks came before us --

10 MR. HENNESSEY: Well --

11 MR. WILENSKY: -- I don't think you've  
12 added much within the past year.

13 MR. HENNESSEY: We've got -- we've got a  
14 couple of things in the works. We've -- we've got a  
15 schedule. So this year and -- this month in fact, June  
16 of 2012, we'll be moving -- we'll be filling up four more  
17 canisters that are already built, so 18 of the 19 will be  
18 loaded. And we're also evaluating or looking to come  
19 back before the Council and discuss a full build out.  
20 Not that we'd do the full build-out now, but we have the  
21 permission for the pad for 49 modules, and we'd be  
22 looking for the permission for the whole pad, for the  
23 whole 135, and then we'd build that on an as-needed basis  
24 --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. WILENSKY: On this existing site that  
2 you now have?

3 MR. HENNESSEY: Correct.

4 MR. WILENSKY: Without adding any more to  
5 the site? In other words, you feel that site you have  
6 would adequately take care of 49 'til 130, or whatever  
7 that amount was?

8 MR. HENNESSEY: Yes. Yes.

9 MR. WILENSKY: The last question I have is  
10 have you had any -- have you had a shutdown for any  
11 reaction leaks in the past year or so?

12 MR. HENNESSEY: No.

13 MR. WILENSKY: Has there been any  
14 radiation leaks?

15 MR. HENNESSEY: No.

16 MR. WILENSKY: Thank you. Thank you, Mr.  
17 Chairman.

18 CHAIRMAN STEIN: Mr. Golembiewski.

19 MR. GOLEMBIEWSKI: No questions. Thank  
20 you.

21 CHAIRMAN STEIN: Mr. Lynch.

22 MR. LYNCH: Just a couple. On the -- you  
23 were just talking about the full build-out. You've  
24 filled up 24 canisters in less than 10 years. Now that's

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 -- that's pretty quick.

2 MR. WILENSKY: Yes --

3 MR. HENNESSEY: We have -- we have 14  
4 filled.

5 MR. LYNCH: Yeah, but -- well you're going  
6 to add four more, so --

7 MR. HENNESSEY: Four more --

8 MR. LYNCH: -- so you've got 18 -- but  
9 that's -- that's still quite a bit in 10 years. And from  
10 what I understand, if you want to go beyond 49, you've  
11 got to come back to the Council for extra canisters -- or  
12 extra casings. And you'd want to go for the -- I thought  
13 we approved 88. You said 130 something or --

14 MR. HENNESSEY: My -- that could be  
15 correct. My understanding was that the 135 was raised  
16 because 135 would bring you -- 135 canisters is the  
17 amount that would be 85 from Unit 2 and 3 with the spent  
18 fuel pool also being utilized, and then the additional  
19 would be from Unit 1 if that moved out of the spent fuel  
20 pool into dry cask storage.

21 MR. LYNCH: Yeah, I'm just -- thank you  
22 for refreshing my memory here. When you come to the  
23 reason that -- I've heard the reason that some of the  
24 Europeans can use the -- can recycle the fuel is because

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 their designed plants are all standardized, whereas in  
2 the U.S. we have like a hodgepodge of different designs.  
3 Is that -- does that sound right?

4 MR. HENNESSEY: We do have a hodgepodge  
5 of designs, that's accurate. I -- I think that we could  
6 reprocess the fuel even with that hodgepodge of designs.

7 MR. LYNCH: Alright. And my last question  
8 is -- and I ask it every year and I'm probably going to  
9 get the same answer again --

10 MR. WILENSKY: Yes -- yes --

11 MR. LYNCH: -- are there any plans in the  
12 works for refitting Unit 1 for another fuel source to  
13 putting it on-line?

14 MR. HENNESSEY: No, there is not.

15 MR. LYNCH: Alright. I knew I'd get the  
16 same answer. Thank you, Mr. Chair.

17 CHAIRMAN STEIN: Thank you. Mr. Levesque.

18 MR. LEVESQUE: No questions.

19 CHAIRMAN STEIN: Senator Murphy.

20 MR. MURPHY: No thank you, Mr. Chairman.

21 CHAIRMAN STEIN: Dr. Bell.

22 DR. BELL: Thank you, Mr. Chair. I just  
23 wanted to go back to the original question that Mr.  
24 Perrone asked and review that. That was one of my

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 questions. You said that -- you named impingement and  
2 entrainment. And you said that impingement would be a  
3 federal standard for power plants, any power plants and  
4 not just nuclear power plants, and -- but you -- tell me  
5 why that would be? And then review entrainment, which  
6 you implied would revert to the states, and why that  
7 would be?

8 MR. HENNESSEY: That's -- that's correct.  
9 So 316B is the rule and it deals with impingement, which  
10 would be materials that end up being, you know, impacted  
11 against the intake structure. And the way the draft rule  
12 comes about -- it's anticipated that that will be a  
13 national -- that will apply a national standard. We're -  
14 - we're still waiting for the final rule, so it's --

15 DR. BELL: Right. I understand that.

16 MR. HENNESSEY: And then entrainment is  
17 what actually makes it into the intake, goes through the  
18 system, the cooling system, and then comes back out the  
19 discharge. And it's not just the nuclear facilities,  
20 it's any one that uses cooling water. So it could be a  
21 gas plant, a coal plant. It could be a heavy  
22 manufacturer. And the way the draft rules are, the EPA  
23 is going to divert that decision-making to the states it  
24 looks like, and that they're going to have on a case-by-

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 case basis the ability to determine what the best  
2 technology available is to deal with entrainment issues  
3 at each site.

4 DR. BELL: So my question is --  
5 understanding that part of the review, which I'm now  
6 clear on, why -- what's the rationale for the different  
7 treatment of impingement and entrainment? Is it just  
8 political? That is -- I mean there probably are  
9 different impingement technologies too as well as  
10 entrainment. I mean is it just that they're going to  
11 leave the tricky decisions about which technology to use  
12 to the states? In that case if there are different  
13 technologies for impingement, it should also be thrown to  
14 the states -- I'm trying to figure out why this  
15 difference that you're outlining.

16 MR. HENNESSEY: I think the -- I think the  
17 impingement technology is pretty -- it's pretty advanced  
18 now. They've got these traveling screens and kind of  
19 fish returns, and they've got some good equipment that  
20 works well, and I think they feel they have a stronger  
21 hold -- the entrainment is -- one difference I think is  
22 each region of the country is different, it has different  
23 marine life, and it has different impacts depending on  
24 when the intake is being utilized versus when it's not.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 And so I think that because each region is different and  
2 they have different impacts on the aquatic life, that  
3 that's one reason why they're not doing a national  
4 standard on the entrainment, and that's why it would be  
5 on the ad hoc basis for each state to determine --

6 DR. BELL: Well --

7 MR. HENNESSEY: That probably doesn't  
8 satisfy your question. I don't know the best answer to  
9 that. That's -- that's --

10 DR. BELL: Well I know -- at least I know  
11 enough to know that that's not going to be our concern --

12 MR. HENNESSEY: No --

13 DR. BELL: -- so I'll pass that over.

14 Thank you for your expansion on it. Thank you, Mr.  
15 Chair.

16 CHAIRMAN STEIN: Thank you. Mr. Perrone.

17 MR. PERRONE: Actually, I just have one  
18 more question if I may. I understand the policy not to  
19 reprocess goes way back. Do you know why we originally  
20 had that policy?

21 MR. HENNESSEY: I -- I believe it was  
22 because of nuclear proliferation for weapons. There was  
23 a concern that reprocessed fuel is able to be used for  
24 nuclear weaponry. And so almost a lead by example that

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 we're not going to do it and, you know, that set the  
2 tone. That hasn't been the case and we're -- as we  
3 discussed, almost all the other countries do reprocess  
4 and recycle that material and have less of it as waste.

5 MR. PERRONE: Thank you. That's all I  
6 have.

7 CHAIRMAN STEIN: Professor Tait.

8 MR. TAIT: Those countries that have a  
9 reprocessing plant, is that a separate plant or is it on  
10 site? It's completely separate so that you would have a  
11 national reprocessing --

12 MR. HENNESSEY: I don't know how they do  
13 it. I'll have to get back to you on that. I -- I'm -- I  
14 don't know if they do that on site or if they bring the  
15 fuel off site and reprocess it elsewhere.

16 MR. TAIT: I'd be interested if you could  
17 follow that up and see --

18 MR. HENNESSEY: Happily.

19 MR. TAIT: I guess I -- I would be  
20 interested in the major uses of nuclear energy -- are  
21 there any others, other than us, that don't reprocess or  
22 is your statement -- check your statement out that  
23 there's no other -- that we're the only one that doesn't  
24 reprocess.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. HENNESSEY: I will.

2 CHAIRMAN STEIN: Okay, thank you. Let's  
3 go and see if we have -- any of the parties have any  
4 cross-examination questions for Dominion? I guess Mr.  
5 Baldwin, FirstLight?

6 MR. BALDWIN: No, Mr. Chairman. Thank  
7 you.

8 CHAIRMAN STEIN: Connecticut Municipal?

9 MS. KIPNIS: No, Mr. Chairman.

10 CHAIRMAN STEIN: UI?

11 MR. MCDERMOTT: No questions.

12 CHAIRMAN STEIN: CL&P?

13 MR. GIBELLI: No questions.

14 CHAIRMAN STEIN: Okay, thank you.

15 MR. HENNESSEY: Thank you --

16 MR. LYNCH: Mr. Chairman --

17 CHAIRMAN STEIN: Oh, I'm sorry, Mr. Lynch  
18 --

19 MR. LYNCH: Before you go --

20 CHAIRMAN STEIN: We have a question --

21 MR. LYNCH: -- just -- just a general  
22 question. What's the future of nuclear power as a source  
23 for the country?

24 MR. HENNESSEY: It's -- well it does have

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 a future. As -- as you heard, ISO talked about fuel  
2 diversity and reliability and concerns, and I think it  
3 plays a major role there. It's virtually emissions  
4 free, so it plays an important role there.

5 In the south, both in Georgia and in South  
6 Carolina, they're actually in the process of building  
7 new reactors, the southern company at their Vogel  
8 facility, and then -- the South Carolina utility -- I  
9 forget at which site. Dominion is also looking into it  
10 at our North Anna facility in Virginia. We're -- we're  
11 studying putting in a third reactor there. So it does  
12 have a role.

13 I think that probably one of the bigger  
14 strains on it though is the low prices of natural gas. I  
15 mean it's -- it's -- natural gas being cheap is a great  
16 thing for consumers in the country, but it also starts to  
17 price out other sources or make them a little bit less  
18 economically attractive to make that investment. That  
19 goes for nuclear, it goes for coal, it goes for  
20 renewable. So it's -- it's something that I think is --  
21 it's going to happen. It's probably not as -- because of  
22 where gas prices are now, it's probably a little slower  
23 now than it was five or ten years ago in building up new  
24 reactors.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. LYNCH: Thank you.

2 CHAIRMAN STEIN: Alright, thank you.

3 MR. BALDWIN: Thank you.

4 CHAIRMAN STEIN: Next is Connecticut  
5 Municipal Electric Cooperative.

6 (pause)

7 CHAIRMAN STEIN: Attorney Kipnis, do you  
8 have -- I see you have witnesses to be sworn in.

9 MS. KIPNIS: Yes, I do. I'd like to  
10 introduce Mr. Brian Forshaw, he's our Director of Power  
11 Supply, and Mr. Charles Carpinella, our Load and  
12 Generation Analyst. This is his 29th appearance before  
13 the Siting Council in connection with these forecast  
14 hearings. I'd like to offer them up to be sworn in.

15 (Whereupon, Charles Carpinella and Brian  
16 Forshaw were duly sworn in.)

17 MS. BACHMAN: Thank you.

18 CHAIRMAN STEIN: Thank you. You have  
19 exhibits to be --

20 MS. KIPNIS: Yes, Mr. Chairman. I would  
21 like to offer three exhibits that are listed in the  
22 hearing program as Roman Numeral IV-B, 1 through 3; the  
23 Report of Forecast of Loads and Resources, dated March 1,  
24 2012; the Responses to the Connecticut Siting Council

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 Interrogatories, dated May 10, 2012; and the Responses to  
2 the Connecticut Siting Council Interrogatories, dated  
3 June 5, 2012. I'd like to offer them to the Siting  
4 Council for identification purposes subject to  
5 verification.

6 CHAIRMAN STEIN: Okay. Is there any  
7 objection? Hearing and seeing none, please verify.

8 (Whereupon, Connecticut Municipal Electric  
9 Cooperative Exhibit Nos. 1, 2, and 3 were marked for  
10 identification purposes.)

11 MS. KIPNIS: Mr. Carpinella, did you  
12 prepare or assist in the preparation of these exhibits?

13 MR. CHARLES CARPINELLA: Yes, I did.

14 MS. KIPNIS: Do you have any additions,  
15 clarifications, deletions, or modifications to these  
16 documents?

17 MR. CARPINELLA: Not at this time.

18 MS. KIPNIS: Are these exhibits true and  
19 accurate to the best of your knowledge?

20 MR. CARPINELLA: Yes, they are.

21 MS. KIPNIS: And do you offer these  
22 exhibits as your testimony here today?

23 MR. CARPINELLA: I do.

24 MS. KIPNIS: Mr. Chairman, I would like to

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 offer these documents as full exhibits.

2 CHAIRMAN STEIN: Do any of the parties  
3 object to the admission of these exhibits? Hearing and  
4 seeing none, the exhibits are admitted.

5 (Whereupon, Connecticut Municipal Electric  
6 Cooperative Exhibit Nos. 1, 2, and 3 for identification  
7 were received into evidence as full exhibits.)

8 CHAIRMAN STEIN: We'll now proceed to  
9 cross-examination by staff. Mr. Perrone.

10 MR. PERRONE: Thank you, Mr. Chairman. In  
11 the CMEEC forecast on page 3, I see the energy efficiency  
12 initiative. The cool choice, HVAC rebate program, are  
13 those rebates for new more efficient HVAC units?

14 MR. BRIAN FORSHAW: Yes, that's correct.

15 MR. PERRONE: And on page 4 of the  
16 forecast it mentions CON Smart -- a smart grid program.  
17 So would -- would -- would customers that receive the  
18 two-way digital meters, would they have time of use  
19 rates?

20 MR. FORSHAW: The first phase after  
21 implementation of the meters is to actually put in place  
22 as part of the federal grant process some pilot programs  
23 for time varying rates. Once we get the results from  
24 that, once we compare them with other results from for

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 example the CL&P program, it will go through further  
2 deployment. Also we'll provide the platform -- having  
3 the two-way communicating meters, we'll provide the  
4 platform for direct load control pilots, you know,  
5 programmable communicating thermostats and auditing.

6 MR. PERRONE: Okay. And direct load  
7 control, that would be where you'd be able to turn off  
8 certain loads remotely?

9 MR. FORSHAW: Either remotely or program  
10 it to respond to pricing signals from the wholesale  
11 markets, correct.

12 MR. PERRONE: So with the time of use  
13 rates, it's -- it's possible that, you know, customers  
14 might reduce their usage on a high demand theory?

15 MR. FORSHAW: That's the theory.

16 MR. PERRONE: Okay. But currently, CMEEC  
17 customers don't have any time of use rates?

18 MR. FORSHAW: The -- certainly at the  
19 residential level they -- they have the traditional time  
20 of use rates with clocks, you know, a fairly narrow  
21 bandwidth. What we do have is we do have -- with a  
22 number of our larger industrial customers we've put in  
23 place real time pricing arrangements. Those are larger  
24 customers who actually have integrated hourly metering in

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 place, and they're fairly sophisticated energy users.  
2 And so working through the local utilities and CMEEC,  
3 their -- their purchases are actually priced out based on  
4 the varying wholesale market prices on an hourly basis.

5 MR. PERRONE: Do you have any updates on  
6 the proposed 10 megawatt peaking facility at the naval  
7 submarine base?

8 MR. FORSHAW: The project is still under  
9 review. We're doing additional detailed economics. You  
10 know, as you can well imagine market conditions have  
11 changed dramatically in the last two years, that we've  
12 been working on that --

13 MR. PERRONE: Does CMEEC have any policy  
14 about the use of renewable fuels for its generation mix  
15 or any targets that it seeks to reach?

16 MR. FORSHAW: Yes. Our board has  
17 established a renewable policy targeting up to 20 percent  
18 of our energy needs to be met from resources that are not  
19 tied to the price of either natural gas or oil.  
20 Specifically the thought is that those would be, you  
21 know, hydro, wind, solar, etcetera. Part of that policy  
22 also though includes cost-effectiveness with -- which  
23 sets a limit on the amount of such resources based on the  
24 impact it will have on the customer wholesale or customer

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 retail costs.

2 MR. PERRONE: When we experience a heat  
3 wave let's say several days long, you know, with fairly  
4 consistent temperatures, do you generally find or expect  
5 that the peak demand grows daily during that heat wave?

6 MR. CARPINELLA: Usually -- historically -  
7 - an example, if it was like a three or four-day heat  
8 wave, we get a tendency for it to build up over a period  
9 of time, so usually the third or fourth day you would see  
10 where we're being maximized. This is also quite  
11 prevalent if you were -- as an example had a heat wave  
12 over a weekend, you would expect the following Monday to  
13 be a potentially really high peak day with the impacts of  
14 what went on over the weekend.

15 MR. PERRONE: Is that because there might  
16 be some additional reluctance to turn your AC on, but  
17 after a few days you'd get more customers doing that?

18 MR. CARPINELLA: Yes, there's -- I guess -  
19 depending on what the dew point is at a given time,  
20 people tend to have a tendency to, you know, tolerate it  
21 up to a certain point, but maybe after the third day say  
22 that's it, I'm going to turn it on no matter, you know,  
23 what's going on. But obviously -- that's usually what  
24 happens.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. PERRONE: And -- and I've asked this  
2 before, is Fisher's Island, New York still roughly about  
3 a one-megawatt peak load to CMEEC --

4 MR. CARPINELLA: Yes, it is.

5 MR. PERRONE: Okay. Thank you. That's  
6 all I have.

7 CHAIRMAN STEIN: Okay. Professor Tait.

8 MR. TAIT: No questions.

9 CHAIRMAN STEIN: Mr. Ashton.

10 MR. ASHTON: Thank you. Table 1 of your  
11 May 10th letter shows a 20-year forecast of retail sales  
12 --

13 MR. CARPINELLA: Is this CSC-1, Mr.  
14 Ashton? The --

15 MR. ASHTON: It's the response to CSC-1,  
16 yes.

17 MR. CARPINELLA: Yes, sir.

18 MR. ASHTON: Looking down the residential  
19 service, there's quite a drop from 2019 to 2020 where in  
20 residential it's been a slow build up. What -- what  
21 accounts for that significant drop?

22 MR. CARPINELLA: Without an opportunity to  
23 further look at the individual pieces that make up the  
24 CMEEC forecast, Mr. Ashton, I will have to get back to

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 you with a response to that. As you know, we only file a  
2 CMEEC forecast every year, so the individual forecast  
3 that I prepare are then summarized into this table that  
4 you see --

5 MR. ASHTON: When you say individual  
6 forecast, you mean --

7 MR. CARPINELLA: For each of the CMEEC  
8 members --

9 MR. ASHTON: Oh, okay. Okay. Yeah, I'd  
10 be curious as to know what that is.

11 MR. CARPINELLA: We'll provide a late  
12 file.

13 MR. ASHTON: Yeah, that's fine. What --  
14 what is the average annual consumption for a residential  
15 household on CMEEC? Do you have any idea?

16 MR. CARPINELLA: I --

17 MR. FORSHAW: It's -- it's around 800  
18 kilowatt hours a month.

19 MR. ASHTON: Eight hundred. So ninety-six  
20 hundred a year, roughly.

21 MR. FORSHAW: Yes.

22 MR. TAIT: Eight times twelve is --  
23 (laughter) --

24 MR. ASHTON: Yes. The time of day

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 metering, what does a time of day meter installation  
2 cost? Any idea for a residential household?

3 MR. FORSHAW: I believe -- first of all,  
4 let me -- let me condition it that I'm not involved in  
5 our CON Smart Program, so I -- you know, we can confirm  
6 it, but I believe it's in the neighborhood when you  
7 include the installation cost of around four hundred  
8 dollars per site --

9 MR. ASHTON: Four hundred.

10 MR. FORSHAW: But we can get that  
11 information and provide it --

12 MR. ASHTON: Well that's okay. I'm  
13 inclined to agree with you. Four hundred sounds --  
14 strikes me as being in the ball park. And the annual  
15 average cost, including everything, would be eighty bucks  
16 or something like that for a meter, is that fair to say?  
17 I'm using a 20 percent total carrying charge,  
18 depreciation, the whole nine yards.

19 MR. FORSHAW: I'll -- I'll accept your --

20 MR. ASHTON: Is the savings likely to be  
21 significant so that they can save eighty bucks in the  
22 course of a year, the customer, (a)? And part (b), are  
23 they going bother with nickel and dime savings when  
24 they're working two jobs, chasing the kids, and all the

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 rest --

2 MR. FORSHAW: I think that's part of the  
3 reason why we wanted to -- well first of all --

4 COURT REPORTER: Sir --

5 MR. FORSHAW: -- let me back up, I'm sorry  
6 -- the deployment of the meters is -- in some of your  
7 systems is being done as part of the normal meter  
8 replacement, you know, process itself. In addition, we  
9 did -- we did pursue the economic stimulus funds, which  
10 are helping for some of the members participating to  
11 deploy the meters. So customers aren't seeing -- aren't  
12 directly seeing those incremental costs. There are  
13 benefits on the local utility side in terms of the cost  
14 of meter reading, etcetera, once the initial investment  
15 is made. I think -- it's a valid question. And part of  
16 the reason why we want pilot programs and couple them  
17 with installation of load control devices within the  
18 customer systems to really get a good feel for how  
19 effective in the long-run that will be.

20 MR. ASHTON: Have you done any work  
21 testing that effectiveness?

22 MR. FORSHAW: We have -- no. We don't  
23 have the pilot -- the time varying rate pilots in place  
24 yet.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. ASHTON: Okay. Table -- going back to  
2 Table 1, is that data normalized?

3 MR. CARPINELLA: Again, this is the  
4 forecast that was produced in 2002 here. The methodology  
5 that we used in this year's forecast is different than  
6 the methodology that we used back in that time, Mr.  
7 Ashton. In this table that's presented here, this data  
8 was not weather normalized.

9 MR. ASHTON: So what was the weather  
10 assumption?

11 MR. CARPINELLA: There was --

12 MR. ASHTON: Was it consistent from town  
13 to town?

14 MR. CARPINELLA: There were weather  
15 variables that I did include in model formulation in  
16 terms of heating and cooling degree days, but this  
17 methodological approach is different than the forecast  
18 that we provided in response to I believe CSC-4, which is  
19 this year's forecast.

20 MR. ASHTON: Well what do you use for  
21 degree days?

22 MR. CARPINELLA: A 20 to 30 year average  
23 of information that we have from both Bridgeport and  
24 Bradley Field weather stations here in Connecticut.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. ASHTON: Okay. Why don't you use  
2 weather normalized data?

3 MR. CARPINELLA: We do now in this year's  
4 submittal, Mr. Ashton. We do use the weather normalized  
5 --

6 MR. ASHTON: Yeah, that's the 50/50 --

7 MR. CARPINELLA: The 50/50 forecast that's  
8 presented in response to CSC-4, which is our revised  
9 table here from March --

10 MR. ASHTON: Do you also do a 90/10  
11 forecast for --

12 MR. CARPINELLA: We do. And that was also  
13 provided --

14 MR. ASHTON: -- for demand?

15 MR. CARPINELLA: Yes, as requested by  
16 yourself.

17 MR. ASHTON: Okay, thank you. Nothing  
18 further.

19 COURT REPORTER: One moment please.

20 (pause - tape change)

21 CHAIRMAN STEIN: Mr. Wilensky.

22 MR. WILENSKY: Many of your plants are  
23 oil-fired. Have you thought -- primarily the small  
24 generation plants, have you thought of going to gas,

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 natural gas, and would it make any sense?

2 MR. FORSHAW: We don't believe it will  
3 make sense because they're primarily peaking plants --

4 MR. WILENSKY: Okay --

5 MR. FORSHAW: -- and it's difficult to  
6 schedule and know up ahead. You know, they get called  
7 upon by the ISO very infrequently, often with very short  
8 notice in response to the bulk power system --

9 MR. WILENSKY: And the Norwich plant is  
10 not a peaking plant though, is it?

11 MR. CARPINELLA: Yes, it is.

12 MR. WILENSKY: Oh, it is?

13 MR. CARPINELLA: Yeah.

14 MR. WILENSKY: Okay. Thank you. Thank  
15 you, Mr. Chairman.

16 CHAIRMAN STEIN: Mr. Golembiewski.

17 MR. GOLEMBIEWSKI: No questions, thank  
18 you.

19 CHAIRMAN STEIN: Mr. Lynch.

20 MR. LYNCH: Has -- (indiscernible) --  
21 retired?

22 MR. CARPINELLA: No.

23 (laughter)

24 MR. LYNCH: That's all, Mr. Chairman.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 CHAIRMAN STEIN: Mr. Levesque.

2 MR. LEVESQUE: What -- what types of  
3 properties are included in the residential --

4 COURT REPORTER: I'm sorry. Mr. Levesque,  
5 you need to --

6 MR. LEVESQUE: The residential sales, are  
7 apartments included in there or just single families?

8 MR. CARPINELLA: I believe for those  
9 customers -- some of our members that do have apartments,  
10 yes, they would be included in the residential sales.

11 MR. LEVESQUE: It seems like a lower  
12 percentage than -- for residential than in the CL&P  
13 territory. Is -- are you sure that some of the  
14 apartments aren't included in the general service rates  
15 or --

16 MR. CARPINELLA: I would have to check  
17 that for each one of our members and we could get back to  
18 you as a late filed exhibit.

19 MR. LEVESQUE: It doesn't matter -- but  
20 you probably have something on-line or -- or you could if  
21 you want -- yeah, why don't you do that. Just a, you  
22 know, brief explanation of the categories.

23 MR. CARPINELLA: They will vary from  
24 member to member --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. LEVESQUE: Okay.

2 MR. FORSHAW: The demographics of the  
3 individual system --

4 MR. LEVESQUE: Sure --

5 MR. FORSHAW: -- service territories --

6 MR. LEVESQUE: House -- house sizes.

7 Thank you.

8 CHAIRMAN STEIN: Senator Murphy.

9 MR. MURPHY: I have a question out of  
10 curiosity because your structure is different than say  
11 CL&P and UI. And in response to the question about  
12 renewables, you indicated that the board set a goal and  
13 you mentioned solar and hydro. How do you go about  
14 addressing to achieve these goals when you have members?  
15 It's not like UI can decide this is what we're going to  
16 do or CL&P's corporate says this is what we're going to  
17 do. You've kind of got a different game to play with,  
18 with, you know, Wallingford, Norwich, Groton, and what  
19 have you. I'm just curious as to how you go about who's  
20 going to do hydro or who's going to do solar or -- how do  
21 you -- how do you work that out --

22 MR. FORSHAW: The way --

23 MR. MURPHY: -- and I'm sure it's not  
24 easy, that's why I'm kind of curious.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. FORSHAW: The way we operate is  
2 actually the loads and the resources generally get pooled  
3 and dispatched as part of the overall New England  
4 dispatch process. So in terms of our relationship with  
5 ISO New England, CMEEC is the only entity that they see.  
6 The individual municipalities participate in the markets  
7 through us.

8 In the case of a long-term commitment to a  
9 -- to let's say a wind project if we wanted to procure  
10 that, our process would have us -- and if it's any longer  
11 than five years, we'd go through our board of directors  
12 and would allocate a portion of each project to each  
13 individual municipality, and that would flow through, you  
14 know, our settlement process, a portion -- in those  
15 proportions.

16 MR. MURPHY: So if you were to decide --  
17 the board was to decide say on a wind project such as we  
18 just wrestled with at the other end of the state,  
19 theoretically if you had one -- say you're going to put  
20 it in eastern Connecticut, would all of your member units  
21 participate in the overall expense and what have you of  
22 that?

23 MR. FORSHAW: That -- that would be the  
24 concept, and we would define participation percentages

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 that they would all agree upon up front, and that would  
2 be used to allocate the cost as well as the benefits of  
3 that project, on a project-by-project basis --

4 MR. MURPHY: So while theoretically it  
5 might be in Groton, Wallingford will be paying part of  
6 the freight and so forth, would be the way you'd operate  
7 --

8 MR. FORSHAW: Assuming they all agreed to  
9 participate in --

10 MR. MURPHY: And solar -- and solar and  
11 hydro would be the same type of approach?

12 MR. FORSHAW: For -- for the large scale  
13 projects --

14 MR. MURPHY: For the large scale --

15 MR. FORSHAW: -- correct.

16 MR. MURPHY: Okay. Thank you very much, I  
17 appreciate that. Thank you, Mr. Chairman.

18 CHAIRMAN STEIN: Dr. Bell.

19 DR. BELL: Thank you, Mr. Chairman. I  
20 just wanted to go back to review Mr. Perrone's question  
21 and partly Mr. Ashton's question on these smart meters  
22 and time of use rates and so forth. I want to get out of  
23 a chicken and egg kind of thing and understand where you  
24 are. Last year we had some conversation about this and

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 generally your response from last year seemed to be we  
2 really are not going to go forward with smart meters  
3 until we have rate options and program options for the  
4 users. I can understand that. But my question is, is  
5 that still generally speaking your position so that  
6 you're just running a few pilot programs or is it that  
7 you -- your position is alternatively you will run some  
8 pilot programs until you can design rate options and  
9 program options to propose to the DPU, to PURA and so  
10 forth?

11 MR. FORSHAW: First, I -- let me just try  
12 and clarify my -- my answer. I believe we have a  
13 deployment process already established for a certain  
14 amount of two-way communicating meters. That process has  
15 been continuing on a system-by-system basis where we now  
16 believe we have a critical mass of meters in place that  
17 allow us to look at developing some of these pilots and  
18 to gain the knowledge and insight into, you know, on a  
19 local community level how does this work, how does it fit  
20 in, what are the kind of things that would make it  
21 successful or not that might resonate and work to the  
22 benefit of customers. So that's where the pilots come  
23 in. So we've -- we've got the deployment. I think we  
24 want to do the pilots. From the beginning the intent has

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1       been, assuming success, we would move on to the next step  
2       where it makes sense. There are, as I said before,  
3       benefits of just having the two-way communicating meters,  
4       utility operations as well. And so that's again part of  
5       the overall evaluation process.

6                     DR. BELL: Okay. I --

7                     MR. FORSHAW: Maybe that helps --

8                     DR. BELL: Yeah, that does help because --  
9       actually I was using the term pilot in a way that I was  
10      getting from how CL&P and UI use it, and I can  
11      immediately see we're having a little bit of language  
12      problems. But without going into that, then my simple  
13      follow-up is how many -- as a -- on a percentage basis  
14      for say -- well however you want to do it for commercial,  
15      industrial, or for residential, what is the extent of  
16      deployment that you have of the two-way digital meters  
17      right now?

18                    MR. FORSHAW: I -- I believe in our report  
19      we indicated it was about 17,000 customers. That's  
20      probably about 25 percent of the total customer base.

21                    DR. BELL: Okay, thank you. That's my  
22      question, Mr. Chair.

23                    CHAIRMAN STEIN: Alright, thank you.  
24      We'll just go again to see if any of the other parties

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 have any questions. FirstLight Power?

2 MR. BALDWIN: No questions.

3 CHAIRMAN STEIN: Dominion?

4 MR. BALDWIN: No questions.

5 CHAIRMAN STEIN: UI?

6 MR. MCDERMOTT: No questions.

7 CHAIRMAN STEIN: CL&P?

8 MR. GIBELLI: No questions.

9 CHAIRMAN STEIN: Okay. We're going to  
10 take a 10-minute break and we'll resume with UI.

11 (Whereupon, a short recess was taken.)

12 CHAIRMAN STEIN: I see, Attorney  
13 McDermott, you're trying to confuse me by not sitting in  
14 the middle there -- (laughter).

15 MR. MCDERMOTT: I sit where they tell me  
16 to sit.

17 CHAIRMAN STEIN: Oh, okay.

18 MR. ASHTON: Since beginning when --  
19 (laughter) --

20 MR. MCDERMOTT: So I can only look at Mr.  
21 McDonnell here -- (laughter) --

22 CHAIRMAN STEIN: Do you have witnesses?

23 MR. MCDERMOTT: Yes, sir. I have three  
24 witnesses on the UI panel. To my immediate right is Mr.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 Pat McDonnell, followed by Mr. Alex Boutsoulis, and then  
2 Robert Manning.

3 CHAIRMAN STEIN: If you would have them  
4 sworn in.

5 (Whereupon, Alex Boutsoulis, Pat  
6 McDonnell, and Robert Manning were duly sworn in.)

7 MS. BACHMAN: Thank you.

8 CHAIRMAN STEIN: Do you have exhibits --

9 MR. MCDERMOTT: Yes, Mr. Chairman. UI has  
10 three exhibits I offer for identification subject to  
11 verification. Exhibit 1 is the Report of Forecast of  
12 Loads and Resources, dated March 1, 2012; Exhibit 2 is  
13 UI's responses to CSC Interrogatories of May 11, 2012;  
14 and Exhibit 3 is the response to the CSC Interrogatories,  
15 dated June 5, 2012, which I offer for identification  
16 purposes.

17 CHAIRMAN STEIN: Any objection? Hearing  
18 and seeing none, would you please verify the exhibits.

19 (Whereupon, UI Exhibit Nos. 1, 2, and 3  
20 were marked for identification purposes.)

21 MR. MCDERMOTT: Mr. Manning, through you  
22 did you prepare or assist in the preparation of the three  
23 UI exhibits?

24 MR. ROBERT MANNING: Yes, I did.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. MCDERMOTT: And do you have any  
2 changes to any of those exhibits?

3 MR. MANNING: No, I don't.

4 MR. MCDERMOTT: And do you adopt them here  
5 today?

6 MR. MANNING: Yes, I do.

7 MR. MCDERMOTT: Mr. Chairman, I offer UI  
8 Exhibits 1 through 3.

9 CHAIRMAN STEIN: Any -- any objection to  
10 having these exhibits noticed? Hearing and seeing none,  
11 the exhibits are -- are hereby admitted.

12 (Whereupon, UI Exhibit Nos. 1, 2, and 3  
13 for identification were received into evidence as full  
14 exhibits.)

15 CHAIRMAN STEIN: We'll now begin with  
16 cross-examination by staff. Mr. Perrone.

17 MR. PERRONE: Thank you, Mr. Chairman.  
18 Looking at UI's May 11th interrogatory responses,  
19 Question 3 has a breakdown in megawatts and gigawatt  
20 hours for the C&LM. So is that full conservation and the  
21 load management combined?

22 MR. PAT MCDONNELL: No, this is just for  
23 conservation.

24 MR. PERRONE: Okay. So these are all the

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 passive resources?

2 MR. MCDONNELL: Correct.

3 MR. PERRONE: Okay. Would it be possible  
4 to get as a late file a similar breakdown with the load  
5 management?

6 MR. MCDONNELL: Certainly.

7 MR. PERRONE: And like I asked CMEEC, when  
8 you experience a heat wave of several days long with  
9 fairly consistent temperatures, do you generally find  
10 that the peak demand grows daily?

11 MR. MANNING: Yes. It kind of depends on  
12 the time of -- or the day of the week. If it happens  
13 like Friday, Saturday, and Sunday, you probably wouldn't  
14 see a continuous increase. But if it was Monday,  
15 Tuesday, or Wednesday, you would -- you would see a  
16 general trend upward.

17 MR. PERRONE: Does UI have time of use  
18 rates anywhere in its service area?

19 MR. MANNING: Yes, we do.

20 MR. PERRONE: Okay. Has it been UI's  
21 experience that customers have reduced usage during peak  
22 demand periods with the time of use rates?

23 MR. MANNING: With respect to energy or  
24 peak?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. PERRONE: With respect to peak.

2 MR. MANNING: No, I think -- you know, as  
3 they become uncomfortable, the example used about the  
4 heat wave, they're -- you know, once their comfort level  
5 is basically surpassed and they want to turn their air-  
6 conditioning on, they will no matter the cost.

7 MR. PERRONE: What, if any, smart grid  
8 features has UI implemented in its service area?

9 MR. MANNING: Well we do have an AMI  
10 system, an automatic meter reading infrastructure, in  
11 place. So basically, virtually a hundred percent of our  
12 meters are read remotely. And with that, we have the  
13 time of use rates for basically all customer classes.

14 We are also deploying a smart meter which  
15 actually has a remote disconnect and reconnect  
16 capability. I believe there's about 80,000 of those  
17 deployed, so about 25 percent of our territory.

18 Also we have -- I don't know if you want  
19 to talk about that, Pat, but the home network that we --  
20 that we're piloting?

21 MR. MCDONNELL: Yeah, we've piloted some  
22 in-home displays and other in-home technologies because  
23 Mr. Manning mentioned 25 percent of the meters have  
24 disconnect functionality, they're actually full two-way

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 communication, so we can display messages in customers'  
2 homes. And we just wrapped up a pilot of some of those  
3 technologies.

4 MR. ASHTON: Just -- just to make sure  
5 that -- an automatic meter reading is not a smart meter,  
6 is that correct? That's a revenue metering system where  
7 you drive by and send out a signal close to your meter  
8 and the meter responds --

9 MR. MANNING: Well -- yeah, we do not  
10 actually drive by. We have the radio communication  
11 infrastructure in place, so the meter talks to the radio  
12 --

13 MR. ASHTON: Okay --

14 MR. MANNING: -- if it's on a pole or --

15 MR. ASHTON: -- wherever that radio is  
16 located, in a substation --

17 MR. MANNING: Correct --

18 MR. ASHTON: -- or a control room or what  
19 have you.

20 MR. MANNING: Correct.

21 MR. TAIT: But you need a special meter at  
22 the house?

23 MR. MANNING: Yes.

24 MR. MCDONNELL: But also just to be clear,

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 all our customers -- or almost all our customers -- maybe  
2 there's a few that don't -- but almost all our customers  
3 have that technology. So if you're a UI customer, you  
4 can go on our web portal, you can log onto your account,  
5 and you can actually ping your meter and get an  
6 instantaneous read.

7 MR. ASHTON: Do many people do that?

8 MR. TAIT: But that's just an automatic  
9 meter --

10 A VOICE: I have.

11 (laughter)

12 MR. TAIT: That's just automatic meter  
13 reading. It's not two-way communication --

14 MR. MCDONNELL: No --

15 MR. TAIT: -- it's not --

16 MR. MCDONNELL: -- it's -- that's --  
17 you're actually -- you're actually getting a meter  
18 reading. It's not --

19 MR. TAIT: Yeah --

20 MR. MCDONNELL: -- about 25 percent of the  
21 meters that Mr. Manning mentioned you can actually -- you  
22 have two-way communication with the meter. So you can  
23 actually get the data anytime you want it, not just when  
24 you're driving by, but anytime you want it. And you can

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 also send messages or there's -- there's a disconnect  
2 feature on the meter, so you can so okay we're going to  
3 disconnect this meter for whatever reason. So it's got  
4 some pretty good functionalities.

5 MR. TAIT: You mean I can communicate with  
6 you from my meter, two-way meter --

7 MR. MCDONNELL: Well the utility -- we can  
8 communicate with our customers --

9 MR. ASHTON: He lives in Norfolk, he --

10 MR. TAIT: That's not two-way to me.  
11 That's one way.

12 MR. MCDONNELL: Well then we can in turn  
13 read your data and we could send you a message.

14 MR. TAIT: What -- how do I read -- how do  
15 I get the message?

16 MR. MCDONNELL: It's all -- it's a  
17 cellular network.

18 MR. TAIT: Does it appear on the meter?

19 MR. MCDONNELL: So -- no, but that's where  
20 the home displays I mentioned before would come into play  
21 --

22 MR. TAIT: I'll back up and -- there's  
23 three different pieces of equipment --

24 MR. MCDONNELL: Okay, so -- yeah, we've

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 got -- we've got a cellular network, a communication  
2 network that communicates with the meter on your house.  
3 And about three-quarters of the meters -- it's a one-way  
4 communication. The meter and the cellular network  
5 exchange data. It comes from the meter to the cellular  
6 network. For about 25 percent of our customers. And as  
7 we refresh these meters, that number is going to grow.  
8 They have the ability to go two-way so we can get your  
9 meter read from your meter. And we can also send you a  
10 message if you have one of these in-home displays. Or if  
11 -- if we wanted to disconnect your meter, we could send a  
12 signal to disconnect your meter --

13 MR. ASHTON: What would -- what would the  
14 message be to a customer typically?

15 MR. MCDONNELL: Well some of the things  
16 that we piloted might be --

17 MR. ASHTON: You haven't paid your bill  
18 and we're knocking you off?

19 MR. MCDONNELL: That -- that might be a  
20 good one, but more prominently you might have something  
21 like, you know, we're in a peak period, so we could tell  
22 you what our usage was, or if it was -- if we had  
23 different rate designs where we might have -- maybe  
24 instead of just the two tier time of rate, time of day

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 rate like we currently have, we might have something more  
2 progressive where they -- one of the popular models is  
3 critical pricing where if it's a really high demand day,  
4 we're going to have a different -- in addition to the odd  
5 peak rate, we'll have an adder. So it's a really high  
6 load day, you're not just going to pay the high peak  
7 rate, you're going to pay an even higher rate, and we  
8 could tell you that through the home network.

9 CHAIRMAN STEIN: So you could then turn  
10 off whatever it is, an appliance or something --

11 MR. MCDONNELL: Well that's an additional  
12 functionality that is then enabled through the home area  
13 network. The gateway that we communicate to from the  
14 meter can then talk to devices that are enabled and you  
15 can say okay we're going to sign you up for maybe an air-  
16 conditioning program, we're going to shut off your air-  
17 conditioner for you, all done through the metering --

18 MR. TAIT: How do I get that message? On  
19 the screen on the meter or do you tell --

20 MR. MCDONNELL: No, we would -- we would -  
21 - we would install a wireless device in your home on the  
22 wall and that would -- the meter would communicate to  
23 that device.

24 MR. TAIT: And I'd read it visually --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. MCDONNELL: And there would be a  
2 message displayed. There might be -- you know, there's  
3 different -- there's different strategies that we've  
4 piloted for how to communicate the message, it may be  
5 lights or different indications.

6 A VOICE: (Indiscernible) --

7 MR. MCDONNELL: Yeah, a green -- I don't -  
8 - I don't remember all the details.

9 CHAIRMAN STEIN: Let's get back to Mr.  
10 Perrone.

11 MR. PERRONE: Does UI anticipate that it  
12 would be able to meet the State's increasing RPS  
13 standards through 2020?

14 MR. MANNING: Yes, we do.

15 MR. PERRONE: Even so, are there any  
16 constraints that may make that difficult or challenging?

17 MR. MANNING: At this point we don't  
18 foresee any.

19 MR. PERRONE: Okay. Thank you. That's  
20 all I have.

21 CHAIRMAN STEIN: Professor Tait.

22 MR. TAIT: I've had my questions.

23 CHAIRMAN STEIN: Mr. Ashton.

24 MR. ASHTON: A couple of miscellaneous

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 questions. In one of your responses you've indicated  
2 that you keep track of the number of electric cars on  
3 your system. Out of curiosity, how many do you have now?  
4 Any idea?

5 MR. MANNING: I believe eight.

6 MR. ASHTON: Eight?

7 MR. MANNING: That we're aware of, yes.

8 MR. ASHTON: Eight. A big penetration --  
9 (laughter). What's UI's annual per customer use, per  
10 residential customer use approximately?

11 MR. MANNING: About eighty-five hundred  
12 kilowatt hours.

13 MR. ASHTON: Eighty-five hundred. Is  
14 there -- is there much expectation that the time of day  
15 rates will cause material customer utilization changes?  
16 Do you think that the time of day rates are really going  
17 to have any impact in this world where two people are  
18 often working or a single parent and families are working  
19 and --

20 MR. MANNING: Well we've had time of day  
21 rates for years. And as you can see from our forecast --  
22 Mr. Perrone asked -- sales have been decreasing, but peak  
23 has been increasing --

24 MR. ASHTON: Yeah --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. MANNING: -- so again, it goes to the  
2 comfort level on those hottest days of the year. You  
3 know, people -- they want to be cool, so they put the  
4 air-conditioning on. You know, maybe if you did like a  
5 real time pricing, like an hourly structure -- as Mr.  
6 McDonnell said, we basically have a two-tier structure,  
7 off-peak and on-peak.

8 MR. ASHTON: Okay. UI is in a little  
9 different position than what it's been historically,  
10 having within its wings a gas company in the competing  
11 territory. How do you manage competition between the  
12 two? Do you actually encourage customers to use gas for  
13 example for hot water heating where the economic  
14 advantage to gas is pretty significant?

15 MR. MCDONNELL: Well, you know, we -- we  
16 always try to look out for our customers' best interests  
17 --

18 MR. ASHTON: You want?

19 MR. MCDONNELL: We always look out for our  
20 customers' best interests. So if it's --

21 MR. ASHTON: What --

22 MR. MCDONNELL: We look out for our  
23 customers' best interests. So if it's most economic for  
24 a customer to heat with natural gas, you know, we're

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 certainly not going to tell him otherwise because he  
2 wouldn't -- very quickly wouldn't believe what --

3 MR. ASHTON: But would you tell him that  
4 it is more economical to heat with natural gas?

5 MR. MCDONNELL: Absolutely. And you know,  
6 we might -- my -- one of my primary responsibilities is  
7 to deal with energy efficiency programs and so we've got  
8 gas efficiency programs, we've got electric efficiency  
9 programs. And you know, we frequently find that people  
10 are concerned about fuel switching in the efficiency  
11 programs. And so one of the things I tell people is we  
12 leave the choice of fuel up to the customers. There's a  
13 lot of reasons why people would choose fuel -- a certain  
14 fuel over another fuel. That's a personal decision we  
15 leave to the customer. And then we try to get them to  
16 have the most efficient use of that fuel when they --  
17 when they ultimately choose that fuel.

18 MR. ASHTON: Is that reflected in your  
19 forecast where gas is close to its all time low on a real  
20 constant dollar basis where electricity is pretty high?  
21 Is there any fuel switching anticipated in your  
22 forecast?

23 MR. MCDONNELL: I --

24 MR. MANNING: Well we do check for that

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 when we develop the forecast. It's -- an econometric  
2 model is used and we do look at cross-price elasticity,  
3 so gas, oil, and electricity. UI is a summer peaking  
4 utility. The gas company typically is winter peaking for  
5 fuels for heat, you know, where customers have a choice  
6 for heat, they can use oil, gas, or electric. But most  
7 of the air-conditioning load is electric load --

8 MR. ASHTON: Yeah, I understand that, I  
9 really do.

10 MR. MCDONNELL: And you know, I think --  
11 you know, UI -- we have a fairly low penetration of  
12 electric heat customers. And I -- you know, because  
13 there's historically been good penetration of the gas  
14 system --

15 MR. ASHTON: But you have a fairly high  
16 penetration of electric water heating customers, don't  
17 you?

18 MR. MCDONNELL: We do.

19 MR. ASHTON: And that's where I would  
20 expect there to be a lot of head-on competition --

21 MR. MCDONNELL: Well there's --

22 MR. ASHTON: -- in an area where your gas  
23 is available.

24 MR. MCDONNELL: True, but if someone is

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 already using natural gas to heat their home, it's likely  
2 that they're going to have a gas hot water either off a  
3 boiler or a standalone gas hot water heater. It would be  
4 pretty unusual I think for them to have electric hot  
5 water with gas heat. So typically what you find is you  
6 find an oil furnace or boiler -- probably an oil furnace  
7 and an electric hot water heater. So in that situation  
8 that customer is not going to switch their water heater  
9 to gas. If anything, they're going to switch the whole  
10 home to gas --

11 MR. ASHTON: How about gas for clothes  
12 drying? There's not a lot of penetration there.

13 MR. MCDONNELL: There's not. But again,  
14 the situation where the home's primary source of heat is  
15 gas, then that's an option for the customer -- likely a  
16 good option for the customer. In other instances where  
17 it's primarily oil heat, that's not really -- neither of  
18 those are really a viable option. So one of the things  
19 that we're looking to focus on for electric hot water is  
20 if there's some new heat -- pump heat water heater  
21 technology that provides some significant electrical  
22 energy savings, and they're pretty good quality products  
23 made by national brands as opposed from the earlier heat  
24 pump water heater technologies, so we're going to

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 increase the promotion of those rebates through the  
2 efficiency fund for heat pump water heater technology for  
3 electric water heater customers.

4 MR. ASHTON: Isn't that offset somewhat by  
5 the advances in gas water heating technology, where if  
6 you go to a -- take it off a boiler -- a very high  
7 efficiency boiler --

8 MR. MCDONNELL: Well you --

9 MR. ASHTON: -- you're getting 93 percent,  
10 plus or minus, efficiency for water heating --

11 MR. MCDONNELL: Yeah and you've -- there  
12 are also tankless water heaters --

13 MR. ASHTON: Right --

14 MR. MCDONNELL: -- that are very high  
15 efficient --

16 MR. ASHTON: Right --

17 MR. MCDONNELL: -- highly efficient as  
18 well. Your increment there is you're going from an 85  
19 percent non-condensing unit to a 95 percent, so there's  
20 about a 10 percent efficiency gain --

21 MR. ASHTON: Yeah --

22 MR. MCDONNELL: -- and electric hot water,  
23 I can go from a COP of 1, essentially an electric  
24 resistive tank 1, to COP of 2 or more on a heat pump

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 water heater. So the significant efficiency gain in a  
2 heat pump water heater is --

3 MR. ASHTON: Well I'm not -- I don't want  
4 to get into the competition too much, but it strikes me  
5 that with the fuel oil to gas pricing structures now,  
6 there would be a significant increase in gas conversions.  
7 And that's what I'm picking up from my contacts in the  
8 industry, that people want gas as bad as they can -- in  
9 fact, UI is directly a part, and Southern Yankee and CNG  
10 are jointly advertising for conversion. And I know in  
11 the home -- in my hometown of Meriden I'm getting an  
12 awful lot of market for new services --

13 MR. MCDONNELL: Yeah and there are  
14 significant conversions to natural gas. And like you say  
15 it's people that want -- see the price advantage and want  
16 natural gas badly. One of the advantages that we enjoy  
17 at UI is -- in our last rate case we were --

18 MR. ASHTON: What?

19 MR. MCDONNELL: We would be coupled. So  
20 there's -- there's no direct linkage between our sales  
21 and our revenue requirements. So to the extent that our  
22 --

23 MR. ASHTON: Well competition helps that -  
24 -

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. MCDONNELL: Yes.

2 MR. ASHTON: I have nothing further.

3 Thank you, Mr. Chairman.

4 CHAIRMAN STEIN: Mr. Wilensky.

5 MR. WILENSKY: Just -- just one question.

6 In this booklet prepared and sent out March 1st, on page  
7 8 of the booklet -- do you have that --

8 MR. GIBELLI: Mr. Wilensky, is that the  
9 forecast report of --

10 MR. WILENSKY: Yes. The last paragraph,  
11 beginning with the word grants, approved through the DG -  
12 - the distributed -- the programs -- eight and a half  
13 megawatts capacity -- customer decisions must occur  
14 before a three-year time frame runs out in June of 2012,  
15 which is right now. What -- what does this mean? What  
16 is this -- what is this referring to?

17 MR. MCDONNELL: Under that program that  
18 was administered by the Department of Public Utility  
19 Control, customers applied for grants for distributed  
20 generation and -- to offset the capital costs of those  
21 projects and those grants had a three-year time window.  
22 Some customers applied for the grant and then decided not  
23 to move forward with their projects, so those grants will  
24 be expiring. And it appears to us that those projects

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 will not move forward --

2 MR. WILENSKY: So have the grants actually  
3 run out? Do they run out in June of this year --

4 MR. MCDONNELL: They run out this month.

5 MR. WILENSKY: Is there an extension of  
6 the grants or this is it?

7 MR. MCDONNELL: That's it. Now there is a  
8 new program as part of Public Act 1180 for distributed  
9 generation that requires now DEEP to offer a program that  
10 would provide capital grants at a lesser dollar amount.  
11 And I'm not sure of the exact timing when DEEP will  
12 release that program, but we expect that we may see some  
13 activity from distributed generation as a result of that  
14 program.

15 MR. WILENSKY: Okay, thank you. Thank  
16 you, Mr. Chairman.

17 CHAIRMAN STEIN: Mr. Golembiewski.

18 MR. GOLEMBIEWSKI: No questions, thank  
19 you.

20 CHAIRMAN STEIN: Mr. Lynch.

21 MR. LYNCH: Just two questions. What --  
22 in response, Mr. Manning, to Mr. Ashton's questions about  
23 electric cars and you said you have eight within your  
24 system or so on and so forth?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. MANNING: Yes.

2 MR. LYNCH: Now with the big push  
3 nationwide for electric cars, are there any plans in  
4 place for your service area for plug-in stations,  
5 especially along 95, which cuts right through your  
6 district?

7 MR. MANNING: Yeah, from what I understand  
8 there's service areas or service stations on I-95 and  
9 along the Merritt in our service territory, and are  
10 equipped for --

11 MR. LYNCH: Or will be --

12 MR. MANNING: -- or services equipped  
13 where they could put in plug-in stations.

14 MR. LYNCH: Is that something that is  
15 monitored through you or you -- I guess I don't know how  
16 the plug-in stations are going to work.

17 MR. MANNING: Well there's -- there's  
18 three levels of stations depending on the type of charge.  
19 Basically, there's like a trickle charge, which is a  
20 small long draw, so it draws -- so if somebody wanted to  
21 charge like their vehicle over night in their garage,  
22 that's -- that's based on 120-volt service. Then there's  
23 a 240-volt and then a 480-volt service. If it was a 480-  
24 volt, they would apply for service, go through the

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 electrical inspector, you know, channel and get approval  
2 and then we would energize that service. So we are aware  
3 of that.

4 Then Level 2 -- also we're aware of many  
5 of the level 2 installations. And we do have several  
6 installed within our territory and not just at the  
7 residences that have bought the -- or procured the  
8 electric vehicle. But -- for instance at the train  
9 station in New Haven. So the public -- at the public  
10 garages we do have some charging stations that we have  
11 installed, you know. And we are monitoring the usage on  
12 a basically daily low profile to see the impact on the  
13 system and what that would be.

14 MR. LYNCH: I'm assuming you're using the  
15 400 you mentioned -- if I'm driving from DC to Maine,  
16 how quickly can I get recharged? I guess that's my  
17 question.

18 MR. MANNING: Yes. Actually it depends on  
19 the battery, the watt hour capacity of the battery, but  
20 typically it would be about six to ten minutes. So  
21 you'd, you know, pull into the station, plug in, maybe  
22 you would run in and, you know, buy water or some other  
23 food or whatever, snacks for your commute, and then, you  
24 know, a couple of minutes later the car would be fully

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 charged. It doesn't have to really be fully charged or  
2 -- 80 percent charged I think to get to your destination.

3 MR. LYNCH: Do you happen to know when a  
4 car is fully charged what the mileage would be or does  
5 that vary with the manufacturer?

6 MR. MANNING: I believe it varies with the  
7 manufacturer.

8 MR. LYNCH: And Mr. McDonnell, you  
9 mentioned this message system --

10 MR. MCDONNELL: Yes --

11 MR. LYNCH: -- that you put a wireless  
12 router within the home to receive a signal?

13 MR. MCDONNELL: Yes. Basically the meters  
14 have a wireless communication device. It's a -- it's a  
15 SIGNE protocol and they can talk to other devices in the  
16 home.

17 MR. LYNCH: Now if I'm a 13-year-old whiz  
18 kid that can hack into the system and get free  
19 electricity for my parents, what security is in place to  
20 stop that?

21 MR. MCDONNELL: I understand there are  
22 security protocols, but that's certainly one of the  
23 things that the industry is grabbling with right now, is  
24 how do you make sure that these things are all secure.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. LYNCH: Thank you for your answer.

2 Mr. Chairman, thank you.

3 CHAIRMAN STEIN: Mr. Levesque.

4 MR. LEVESQUE: Mr. Manning, just a couple  
5 of questions on --

6 COURT REPORTER: Is your microphone --

7 MR. LEVESQUE: On the electric cars, for  
8 example, the volts in the Nissan Lee, do those have the  
9 480 capability?

10 MR. MANNING: I'm not a hundred percent  
11 sure. I believe on the -- well the -- they could get a  
12 home charge, which would be a 120 or 240 volts. Typical  
13 homeowners don't have 480 volt service.

14 MR. LEVESQUE: Right.

15 MR. MANNING: One risk we see is really  
16 localized distribution issues. So let's say you and  
17 your neighbor both get electric vehicles, there may be  
18 issues at the distribution transformer level. I'm not  
19 sure -- I know there were -- there was supposed to be a  
20 national standard on the 480-volt charger. I'm not sure  
21 if that actually has been developed and accepted as a  
22 standard yet --

23 MR. LEVESQUE: So you don't have an  
24 example of which cars are good for that --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. MANNING: No, not at this point.

2 MR. LEVESQUE: So probably the -- the --  
3 like -- like the hybrid like the -- that has the newer  
4 option of a plug-in might not have the 480 anyway?

5 MR. MANNING: Correct. Yeah, the plug-in  
6 - I think the typical range time would be either the  
7 level 1 or level 2 charge.

8 MR. LEVESQUE: And then some -- some  
9 homeowners of course don't even have enough extra  
10 capacity to put another 220 line in.

11 MR. MANNING: Yeah. And how we -- we  
12 would actually be notified of that. They would do a  
13 service upgrade. They would again go through the  
14 electrical inspector release protocol. And then we would  
15 be contacted that, you know, they did a service upgrade.  
16 Now we don't know the reason for the service upgrade. It  
17 could be that they put in central air or a pool --

18 MR. LEVESQUE: Sure --

19 MR. MANNING: -- or an electric vehicle  
20 charging station.

21 MR. LEVESQUE: Okay. Mr. McDonnell --

22 MR. MCDONNELL: Yes --

23 MR. LEVESQUE: -- the -- can you describe  
24 briefly what kind of antenna system and how widespread

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 you had to install to get reliable two-way coverage to  
2 the meters?

3 MR. MCDONNELL: Well it's -- it's --  
4 they're pole mounted devices. I'm not the metering  
5 engineer, so I don't know exactly what the penetration is  
6 of the --

7 MR. LEVESQUE: Sure --

8 MR. MCDONNELL: -- of the cellular device  
9 is. And I understand it's repeaters that can relay the  
10 message. But basically, our -- our -- essentially our  
11 whole service territory is covered now by a radio  
12 network that allows us to communicate with these meters.

13 MR. LEVESQUE: And that -- it was all done  
14 at a reasonable cost?

15 MR. MCDONNELL: We were able to justify it  
16 based on the savings from eliminating the meter reading  
17 expense, going out and physically reading meters.

18 MR. LEVESQUE: I was just thinking that --  
19 I was wondering why you were able to get such reliable  
20 service when in the same service area the phone companies  
21 couldn't --

22 MR. MCDONNELL: Yeah, I -- I won't comment  
23 on that.

24 MR. LEVESQUE: Okay. Thank you very

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 much.

2 CHAIRMAN STEIN: Senator Murphy.

3 MR. MURPHY: I have no questions, Mr.  
4 Chairman.

5 CHAIRMAN STEIN: Dr. Bell.

6 DR. BELL: Thank you, Mr. Chair. I'm  
7 curious about the status of REGGE (phonetic) and whether  
8 you participate as a stakeholder in REGGE in negotiations  
9 on what changes will be made since this year, as I  
10 understand it, changes will be made according to the  
11 charter of the organization. Do you -- are you engaged -  
12 - can you tell me about the process by which they'll  
13 arrive at decisions on the changes to be made?

14 MR. MCDONNELL: Well REGGE is something  
15 that's done at a higher level than we would deal at. I  
16 think it's done at the state level for Connecticut. We  
17 actually receive REGGE auction proceeds into the  
18 conservation and load management funds --

19 DR. BELL: Right --

20 MR. MCDONNELL: -- so we're very -- we're  
21 very interested in the REGGE process, but we don't  
22 actually participate in the organization of the -- of  
23 basically the coalition of states. And of course there's  
24 some risk of migration of some of the states, which the

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 concern is that the whole thing will become unraveled.  
2 But you know, we're watching that kind of from afar.

3 DR. BELL: Okay, I understand your answer.  
4 I -- my understanding was that -- when REGGE was  
5 originally formed, yes, on paper certainly it consists --  
6 it's an organization of states. But when it was  
7 originally formed, the utilities had some input into what  
8 the rules were going to be. And since you do directly  
9 get money as an output from REGGE, I'm assuming a fair  
10 amount of not just interests in the results, but interest  
11 in having -- in affecting the process of what the rules -  
12 - how the rules will be changed. So I'm just pressing a  
13 little on that point, on your involvement.

14 MR. MCDONNELL: Yeah, and -- for  
15 Connecticut of course, you know, it was -- it was a  
16 regional effort, it became a statute in Connecticut, so  
17 that generators in Connecticut had to comply with the  
18 requirements. And I believe at the time REGGE was  
19 created for Connecticut, it wasn't the utilities that  
20 represented Connecticut in the REGGE formation, it was  
21 actually DEP, so the folks who at DEP who are now at  
22 DEEP. So I'm not sure of the current status of those  
23 conversations, but I believe that the folks at DEEP are  
24 the ones that represent Connecticut in the process.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 DR. BELL: Okay. Back to the questions  
2 about smart meters, whatever, you know, the term you want  
3 to use that you were discussing, what you're saying is  
4 that all UI customers have a certain level of  
5 functionality beyond a conventional meter, 25 percent  
6 have this advanced functionality if you will. Is that  
7 correct?

8 MR. MCDONNELL: That's correct.

9 DR. BELL: And do you have any plans for  
10 going farther than the 25 percent, any immediate plans  
11 based on studies you might have done --

12 MR. MCDONNELL: Well the --

13 DR. BELL: -- or what's that situation?

14 MR. MCDONNELL: The deployment of the two-  
15 way communication is -- you know, as the meters need to  
16 be replaced. So we're not going to go out and take all  
17 the meters out, but as we upgrade now, we'd go to the  
18 newer meter that has this advanced functionality --

19 DR. BELL: I see --

20 MR. MCDONNELL: -- but that aside, there's  
21 significant functionality with the current metering  
22 system -- I was actually hoping that you maybe were  
23 another user of our web portal because --

24 DR. BELL: I am a user of your web portal

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 actually.

2 MR. MCDONNELL: So if you go on the web  
3 portal, in addition to pinging the meter and getting  
4 continuous reads, depending on the level of granularity  
5 for your particular meter, you can get 45 minutes worth  
6 of metering data somewhere between five-minute and  
7 fifteen-minute intervals. So there's a lot of good  
8 information about what your usage patterns are in your  
9 home from that website.

10 DR. BELL: Right. I -- my only comment on  
11 that since I do use it and just for feedback for your log  
12 book is that currently I go to the web site and use it,  
13 but the display feature would be great for customers who  
14 don't -- who don't want to go to the web site. You know,  
15 they're not familiar with going to the web site, just  
16 plugging -- they're not -- they don't have it bookmarked  
17 on their computer, they -- that's a little bit -- so if  
18 you had -- if you had a display at the meter on a wall  
19 somewhere -- or better yet, they -- you push a cell phone  
20 number, which the customer would -- people are much  
21 better with cell phones nowadays than they are with their  
22 computers -- so that's just a comment on --

23 MR. MCDONNELL: One of the --

24 DR. BELL: -- you know, the active passive

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 consumer type thing.

2 MR. MCDONNELL: One of the challenges we  
3 face though is that, you know, when you go into in-home  
4 displays or in-home communication networks is there's a  
5 process associated with that, and one of the barriers is  
6 how will we pay for that installation, you know. And  
7 it's not something that we see as -- that we would want  
8 to socialize over all customers because some people may  
9 want it and some people may not want it. And so one of  
10 the things we wanted to test was the interest in the  
11 customers to pay -- you know, to pay an additional fee  
12 for these kinds of displays. And to be quite honest, the  
13 interest was fairly low. A lot of customers, you know,  
14 they just want a lower bill and they really weren't  
15 interested in seeing what their usage was on a real time  
16 basis.

17 DR. BELL: Fair enough. Do you have any  
18 way of measuring how much solar is being put on homes,  
19 going -- in other words, going beyond the distributed  
20 generation projects, which you obviously have some -- are  
21 able to monitor -- but if a person put solar panels on  
22 their home, they have to make an arrangement with you for  
23 that metering type of arrangement to use those solar  
24 panels and have their use reflected and so forth. So is

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 the amount of -- the number of those kinds of situations  
2 enough where you can actually count it or is it sort of  
3 vanishingly small at the moment and how -- do you -- are  
4 you making it a practice to be careful in monitoring  
5 solar installations to see how much that's increasing now  
6 that -- I mean it's -- I realize this is completely a  
7 distribution question, but to the extent that  
8 distribution offsets transmission, I think it's a fair  
9 question for us to ask.

10 MR. MANNING: Yeah. We actually have --  
11 every application we track. So when somebody applies to  
12 interconnect, basically we -- we track the fuel types, so  
13 whether it's wind or solar or combined heat and power  
14 arrangement. So we have every installation and every  
15 application that's interconnected on the UI system, you  
16 know, with the address and the amount of DG. I don't  
17 have it off the top of my head how much total solar we  
18 have. We could provide that to you --

19 DR. BELL: Could you provide that because  
20 you've provided -- say for -- I don't know how long  
21 you've been doing it and I don't want to go all the way  
22 back, but say for the last couple of years --

23 MR. MANNING: Sure --

24 DR. BELL: -- what -- what the trend has

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1       been --

2                   MR. MCDONNELL: Well I think we have a  
3       total of all the ones that are connected. In the last --  
4       my last recollection was it was a few hundred.

5                   COURT REPORTER: One moment please.

6                   (pause - tape change)

7                   DR. BELL: Thank you. Those are my  
8       questions, Mr. Chair.

9                   MR. MANNING: And just to clarify, you  
10      want the number and the amount of kW?

11                   DR. BELL: Yes, please.

12                   CHAIRMAN STEIN: Mr. Lynch.

13                   MR. LYNCH: I have -- I have one more  
14      question. Both UI and CL&P had a program for home energy  
15      audits and they outsourced it to different vendors  
16      because I was getting calls from them every day. My  
17      question is two-fold. (1) Is the program still in  
18      existence? And (2) how successful was it or is it?

19                   MR. MCDONNELL: Yes, it's still in  
20      existence. And last year I think UI and CL&P combined --  
21      and I think CMEEC has kind of a similar program -- we did  
22      approximately 20,000 homes in Connecticut.

23                   MR. LYNCH: Well that's impressive.

24                   MR. MCDONNELL: Thank you.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. LYNCH: Is there a target that you  
2 want to do for -- as it continues?

3 MR. MCDONNELL: Public Act 1180 calls for  
4 80 percent of the homes in Connecticut to be weatherized  
5 by -- 2030 I believe it is. So that's our goal.

6 MR. LYNCH: Thank you.

7 CHAIRMAN STEIN: Thank you. Let's see if  
8 any of the parties have any questions. FirstLight Power?  
9 I guess unless I hear a yes, I'll assume it's no.  
10 Dominion Nuclear? Connecticut Municipal? CL&P? No  
11 questions. Okay, thank you. We'll next go to CL&P.

12 (pause)

13 CHAIRMAN STEIN: Attorney Gibelli.

14 MR. GIBELLI: Yes. Good afternoon, Mr.  
15 Chairman. Stephen Gibelli, Assistant General Counsel for  
16 Northeast Utilities on behalf of CL&P.

17 Today I'm joined by -- I'll introduce our  
18 witnesses -- Charles Goodwin, the Director of Rates. To  
19 his right is David Bebrin, Senior Program Planner,  
20 Conservation and Load Management. Brad Bentley, Director  
21 of Transmission System Planning for CL&P. David  
22 Ferrante, Supervisor, Distributed Resources for CL&P.  
23 David Errichetti, Manager of Generation Resource Planning  
24 for CL&P. And Timothy Honan, Manager for Wholesale Power

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 Contracts for CL&P.

2 MR. ASHTON: Is there an budget right now  
3 where poor Mr. Ferrante and all can't have nametags --  
4 (laughter) --

5 CHAIRMAN STEIN: Apparently. We'd like to  
6 swear in the witnesses please.

7 MR. GIBELLI: Please.

8 (Whereupon, CL&P's witness panel was duly  
9 sworn in.)

10 MS. BACHMAN: Thank you.

11 CHAIRMAN STEIN: Attorney Gibelli, do you  
12 have exhibits to be entered?

13 MR. GIBELLI: Yes. Thank you, Mr.  
14 Chairman. We have three exhibits that we'd like marked.  
15 Exhibit 1, the Report of Forecast of Loads and Resources,  
16 dated March 1, 2012; Exhibit 2, the Responses to CSC  
17 Interrogatories, dated May 11, 2012; Exhibit 3, the  
18 Responses to CSC Interrogatories, dated June 5, 2012.

19 (Whereupon, CL&P Exhibit Nos. 1, 2, and 3  
20 were marked for identification purposes.)

21 MR. GIBELLI: And I'll begin by asking Mr.  
22 Goodwin, Mr. Ferrante, and Mr. Bebrin if they were  
23 responsible for preparing Exhibit 1?

24 MR. DAVID FERRANTE: Yes.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. DAVID BEBRIN: Yes.

2 MR. CHARLES GOODWIN: Yes.

3 MR. GIBELLI: And do you have any changes  
4 or modifications to your contribution to Exhibit 1?

5 MR. FERRANTE: No.

6 MR. BEBRIN: No.

7 MR. GOODWIN: No.

8 COURT REPORTER: You need to keep your  
9 voices up.

10 MR. GIBELLI: And do you adopt that as  
11 your sworn testimony?

12 MR. FERRANTE: Yes.

13 MR. BEBRIN: Yes.

14 MR. GOODWIN: Yes.

15 MR. GIBELLI: And I'll ask you -- the  
16 three of you if you prepared and contributed to the  
17 responses that are included in Exhibit 2?

18 MR. FERRANTE: Yes.

19 MR. BEBRIN: Yes.

20 MR. GOODWIN: Yes.

21 MR. GIBELLI: And Mr. Ferrante, do you  
22 have any changes or corrections to your responses?

23 MR. FERRANTE: No.

24 MR. GIBELLI: Mr. Bebrin, do you have any

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 changes to your responses?

2 MR. BEBRIN: No.

3 MR. GIBELLI: Mr. Goodwin, do you have any  
4 changes?

5 MR. GOODWIN: Yes, I do.

6 MR. GIBELLI: And what are they?

7 MR. GOODWIN: I apologize, but we  
8 inadvertently filed a wrong set of information in  
9 response to Question Siting Council 002. And if it would  
10 be okay with the Council, I could read in -- there's a  
11 series of 10 forecasted peak loads from 2002 to 2011. I  
12 could read those 10 into the record and then re-file this  
13 response for the record if that would be okay?

14 MR. TAIT: Yes.

15 MR. GOODWIN: So if we're on the -- again,  
16 marked CSC-2 -- 002, page 1 of 2, the year 2002, the  
17 number shown is 4988. That series is incorrect and  
18 should be replaced with the following 10 numbers that  
19 I'll read into the record. The first year, 4757, 4780,  
20 4826, 4856, 4887, 4938, 5004, 5063, 5123, 5169. And  
21 again, I'll re-file this response with the corrected  
22 numbers for the record.

23 MR. GIBELLI: And with that correction,  
24 Mr. Goodwin, do you adopt your responses as your sworn

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 testimony today?

2 MR. GOODWIN: Yes.

3 MR. GIBELLI: And Mr. Bebrin and Mr.  
4 Ferrante, do you adopt your responses in Exhibit 2 as  
5 your sworn testimony today?

6 MR. FERRANTE: Yes.

7 MR. BEBRIN: Yes.

8 MR. GIBELLI: And Mr. Goodwin, did you  
9 prepare the responses that are included in Exhibit 3?

10 MR. GOODWIN: Yes.

11 MR. GIBELLI: And do you have any changes  
12 or modifications to those responses?

13 MR. GOODWIN: No.

14 MR. GIBELLI: And do you adopt those as  
15 your sworn testimony today?

16 MR. GOODWIN: Yes.

17 MR. GIBELLI: Thank you. Mr. Chairman, at  
18 this time I'd like to move for admission of Exhibits 1 to  
19 3.

20 CHAIRMAN STEIN: Are there any objections?  
21 Hearing and seeing none --

22 MR. GIBELLI: The witnesses are available  
23 for cross-examination.

24 (Whereupon, CL&P Exhibit Nos. 1, 2, and 3

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 for identification were received into evidence as full  
2 exhibits.)

3 CHAIRMAN STEIN: Before we go -- just --  
4 I'm told to remind both staff and Council members that  
5 the pending application 424 is -- it's pending, so we  
6 shouldn't ask any questions relative to the Interstate  
7 Transmission application, but everything else is fair  
8 game. Okay. Mr. Perrone.

9 MR. ASHTON: Mr. Chairman, before we go,  
10 just with Mr. Goodwin's correction, I assume, Mr.  
11 Goodwin, that applies also to Table 2.1 in your 2012  
12 reference forecast, which is found on page 7?

13 MR. GOODWIN: No, sir. What -- what that  
14 question asked for was going back 10 years --

15 MR. ASHTON: Oh, okay --

16 MR. GOODWIN: -- of the 2002 forecast --

17 MR. ASHTON: I beg your pardon. Okay. So  
18 the -- the data in 2-1 is actual data for 2007 to 2011?

19 MR. GOODWIN: That's correct.

20 MR. ASHTON: Okay. So -- but you're off  
21 by 10 megawatts for 2011 on your 2002 -- is that right --  
22 -

23 MR. GOODWIN: I haven't looked at it, but  
24 if that's the case, I'll take credit for that --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 (laughter).

2 MR. ASHTON: You're -- you're excused on  
3 the strength of that -- I'm sorry.

4 CHAIRMAN STEIN: Thank you. Mr. Perrone.

5 MR. PERRONE: Thank you, Mr. Chairman.  
6 Mr. Goodwin, regarding that revised data, is that the  
7 actual -- what was -- what was predicted in the 2002  
8 forecast?

9 MR. GOODWIN: That's correct.

10 MR. PERRONE: Okay. Did CL&P submit a  
11 forecast to ISO New England for their infrastructure  
12 planning purposes?

13 MR. BRAD BENTLEY: On load forecast?

14 MR. PERRONE: On load forecast.

15 MR. BENTLEY: No, we take the load  
16 forecast from ISO New England.

17 MR. PERRONE: Also like I had asked CMEEC  
18 and UI, when you experience a heat wave that's several  
19 days long, do you generally find that the peak demand  
20 grows daily?

21 MR. GOODWIN: Yes. And in one of the  
22 responses we had an example of how we weather normalize  
23 our peak loads. And if you were to look in that  
24 response, you will see that we do include a number of

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 weather factors. It's the response to -- in -- in the  
2 second exhibit, CSC-003, and there's a number of weather  
3 factors. One is the day before temperature. So it's  
4 clearly empirically through our analysis, you know, we've  
5 seen that there is a buildup of temperature that leads  
6 into the peak factor.

7 MR. PERRONE: And on page 14 of the CL&P  
8 forecast there's Table 2.6 and 2-7. When it lists  
9 reserves, is that the reserves just based on the supply  
10 resources that CL&P has an ownership or entitlement  
11 interest?

12 MR. BENTLEY: Yes.

13 MR. PERRONE: So it's not for the whole  
14 service area?

15 MR. BENTLEY: Correct.

16 MR. PERRONE: And on Table 2-8, I  
17 understand it has AES Thames for the -- under -- one of  
18 the facilities under long-term contract. What is the  
19 status of that facility?

20 MR. TIMOTHY HONAN: That plant is not  
21 operating as of today, that's why we show zero claim  
22 capability for it.

23 MR. PERRONE: Do you know when it went out  
24 of service?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. HONAN: I'm going to say about --  
2 about a year and a half ago.

3 MR. PERRONE: Do you know the status of  
4 the Northern Pass Transmission Project connecting with  
5 Hydro Quebec?

6 MR. BENTLEY: I do. And what relationship  
7 -- it's in the interconnection cue at ISO.

8 MR. PERRONE: Okay.

9 MR. BENTLEY: It's currently going --  
10 undergoing the studies of I39 or no adverse impact test.

11 MR. PERRONE: Does CL&P have time of use  
12 rates for its customers?

13 MR. GOODWIN: We have mandatory time of  
14 use rates for the very largest commercial and industrial  
15 customers, approximately the largest 5,000. Beyond that  
16 we have voluntary time of use rates with relatively small  
17 participation at this point.

18 MR. PERRONE: Has it been CL&P's  
19 experience that that's resulted in reduced usage during  
20 peak demand periods?

21 MR. GOODWIN: It's hard to measure because  
22 the C&I customers have effectively had time of use rates  
23 for many, many years, so it's hard to kind of get a  
24 snapshot analytically before and after. And then on the

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 voluntary there's so few customers that take it frankly,  
2 that -- that it's hard to measure that.

3 I will say though that about three years  
4 or so ago we had a fairly extensive real time dynamic  
5 pricing pilot that we ran for CL&P, and that had a series  
6 of customers, residential, commercial, and industrial,  
7 and it tested a number of different types of time based  
8 rates. And within that study we did clearly see a  
9 measured demand response to the various time of use rates  
10 that we tested. One was a traditional two-period time of  
11 use rate. And we also experimented with a fairly wide  
12 gap on the on and off peak pricing to try to drive a more  
13 aggressive price signal. And as you would expect, the  
14 higher the differential on the on and off peak price, the  
15 more measured response we saw on the peak demand. And  
16 within that test we also tested something called the  
17 critical peak pricing scheme, which UI had described it a  
18 little bit earlier, and that's on a very limited number  
19 of hours a year having an exceptionally high price during  
20 that critical peak period. And that exceptionally high  
21 price again, as you would expect, drove a more aggressive  
22 response from customers. So -- so we are optimistic  
23 about the prospects of time of use rates as it relates to  
24 demand response going forward.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. PERRONE: Okay. Does CL&P have its  
2 own demand response program or is it all associated with  
3 ISO's load response program?

4 (pause)

5 MR. BEBRIN: Oh, I'm sorry. We -- we are  
6 tied into the ISO program.

7 MR. PERRONE: And -- I understand it  
8 varies, but generally about how many hours per year are  
9 load response measures generally in place?

10 MR. BEBRIN: They're very short. I -- I  
11 don't know the total -- I would say about maybe --

12 COURT REPORTER: Keep your voice up  
13 please.

14 MR. BEBRIN: Oh, sorry. I would say less  
15 than 20, but I -- I honestly don't know. It's very short  
16 time periods. It depends on the year.

17 MR. PERRONE: What kinds of smart grid  
18 measures has CL&P adopted or seeks to in the near future?

19 MR. GOODWIN: I can't speak to a grid per  
20 se, but what I can speak to is at least a subset of smart  
21 grid is the smart meters, and we did test some of that  
22 within the pricing pilot that I described earlier. And  
23 primarily what we were testing was the two-way  
24 communication and some of the behind the meter

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 technologies, similar to what UI described in terms of  
2 automatic load control of air-conditioning devices and  
3 those types of things. The pilot was fairly successful  
4 and there was a fairly extensive report filed with the  
5 DPUC at the time, so it's available. We haven't pursued  
6 a full blown deployment of smart metering for a variety  
7 of reasons, which I could talk about if you would like.

8 MR. PERRONE: No, that's okay.

9 MR. GOODWIN: Okay.

10 MR. PERRONE: And -- I believe I'd asked  
11 this a few years ago; approximately how many homes per  
12 megawatt. And I believe I was quoted about 500. Does  
13 that sound about right on average? Like one megawatt  
14 could power about 500 homes typically?

15 MR. GOODWIN: There's approximately -- I  
16 wasn't here a few years ago, so let me --

17 MR. PERRONE: Okay --

18 MR. GOODWIN: -- hopefully I'll give a  
19 consistent answer to what you were told before. But from  
20 my understanding is a residential customer on CL&P uses  
21 about 700 kilowatt a month. And there are 744 hours in a  
22 month. At a 30 percent load factor, that would be about  
23 3-kW per residential customer. So whatever that math  
24 works out to --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. PERRONE: Okay --  
2 MR. GOODWIN: -- but about 3-kW for  
3 residential customers.  
4 MR. PERRONE: Okay, that helps. Thanks.  
5 MR. ASHTON: That's coincide peak?  
6 MR. GOODWIN: No. That would be non-  
7 coincide. That's --  
8 MR. ASHTON: Which --  
9 MR. GOODWIN: -- (indiscernible) --  
10 individual peaks --  
11 MR. ASHTON: On a coincide base you might  
12 --  
13 MR. GOODWIN: A little bit less --  
14 MR. ASHTON: -- knock it down to 500 --  
15 MR. GOODWIN: Yeah, and that math might  
16 work --  
17 MR. ASHTON: Yeah --  
18 MR. GOODWIN: -- it's on average too and  
19 may be more on a coincide basis. That would make some  
20 sense, yes.  
21 MR. PERRONE: And my last question, when  
22 our draft report comes out, obviously in the balance  
23 table we have to have import capacity, and I understand  
24 that Connecticut's import capacity is sort of a range,

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 with twenty-five hundred as the maximum. What would be a  
2 realistic average number? Say about 2,000?

3 MR. BENTLEY: Are you talking about real  
4 time imports over the course of a year average type or  
5 the --

6 MR. PERRONE: The table is based on the  
7 peak demand period.

8 MR. BENTLEY: It is a tough number to say.  
9 I really would be guessing at that. You know, the  
10 figures are -- generally our import capability maximum is  
11 about twenty-five hundred megawatts -- yeah, I just  
12 wouldn't want to venture a guess. It depends on the  
13 conditions in real time.

14 MR. PERRONE: Okay. Thank you. That's  
15 all I have.

16 CHAIRMAN STEIN: Professor Tait.

17 MR. TAIT: No questions.

18 CHAIRMAN STEIN: Mr. Ashton.

19 MR. ASHTON: Oh, yeah, I can find a few --  
20 (laughter). UI responded that they had eight electric  
21 vehicles on their system. Does NU have any concept as to  
22 how many they have on your system?

23 MR. GOODWIN: I don't -- there may be  
24 somebody in the company who knows. I don't think any of

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 us know. I -- I --

2 MR. ASHTON: Okay --

3 MR. GOODWIN: -- I do know that they are  
4 out there --

5 MR. ASHTON: Would you say -- would you  
6 agree that it's not exactly a load driver at this point?

7 MR. GOODWIN: Absolutely. I think a  
8 general statement that would be fair is that market  
9 hasn't developed as quickly as we were all hoping.

10 MR. ASHTON: As Mr. Ferrante and Mr.  
11 Goodwin would certainly suspect, I would like to ask a  
12 couple of questions about the price differential with  
13 natural gas being what it is and oil driving the electric  
14 power costs. Is there any indication that the rush to -  
15 - I guess that's probably a fair term -- to convert to  
16 natural gas is having any effect on your load?

17 MR. GOODWIN: Yeah, I think we -- we would  
18 be more hopeful that it was a rush. There's been some  
19 positive impact as it relates to -- the natural gas load  
20 I assume you're speaking to --

21 MR. ASHTON: Yeah --

22 MR. GOODWIN: -- there's clearly been some  
23 benefit. But as you are aware, we have been trying to  
24 market on system conversions of non-users --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. ASHTON: Yeah --

2 MR. GOODWIN: -- and low users since you  
3 are our boss --

4 MR. ASHTON: Yeah --

5 MR. GOODWIN: -- so it's not a new concept  
6 to us --

7 MR. ASHTON: No, but the economics -- the  
8 relative economics --

9 MR. GOODWIN: Right --

10 MR. ASHTON: -- change radically.

11 MR. GOODWIN: Right. The obstacles that  
12 we face right now quite frankly are the behind the  
13 customer meter conversion costs. So even if we could  
14 attract an oil customer to convert, we have to overcome  
15 roughly a seven to eight to nine-thousand dollar behind  
16 the meter conversion cost. That hasn't been an easy  
17 barrier yet to overcome. When we look at off main and  
18 the prospects of expanding gas into unserved territories  
19 where there may be a large oil population, simply the  
20 cost of construction and the contributions and aid to  
21 construction that are required under the current models  
22 again are a fairly strong area. We've been working with  
23 DEEP within the context of the Connecticut energy  
24 strategy that they've been working on to try to get some

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 positive changes as it relates to some regulatory  
2 treatment around those economics. So quite honestly, the  
3 market hasn't developed as quickly and as aggressively as  
4 I think we would have liked, and probably not as quickly  
5 as many may think when they see those types of relatively  
6 wide price spreads. Regulatory economics just kind of  
7 gets in the way a little bit.

8 MR. ASHTON: Have you factored any of that  
9 into your forecast, the greater proportion of energy load  
10 to be served by natural gas?

11 MR. GOODWIN: Into our natural gas  
12 forecast internally absolutely.

13 MR. ASHTON: How about into your electric  
14 forecast?

15 MR. GOODWIN: I don't believe so  
16 explicitly. What I can say is that the way these  
17 electric forecast models work is we get EIA government  
18 data on appliance saturation rates --

19 MR. ASHTON: Yeah --

20 MR. GOODWIN: -- so to your questions  
21 before relative to electric water heating, we get EIA  
22 data on electric water heating saturation trends over  
23 time, and then we also do our internal surveying to get  
24 saturation trends of our own customers. And what we've

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 seen very clearly in the last 10 years or so from those  
2 surveys is a relatively dramatic decline in the  
3 saturation of electric water heating --

4 MR. ASHTON: Really?

5 MR. GOODWIN: Yes. And I -- as a matter  
6 of fact in preparation for this hearing, we were sharing  
7 some of that information and I was quite surprised  
8 frankly to see how dramatic. I think so that what has  
9 happened is that -- and it makes some sense. Natural gas  
10 is at almost all time low prices now, but natural gas has  
11 been much more competitive than electricity for many  
12 years as it relates to water heating. So there has been  
13 an economic advantage over electric water heating for a  
14 long time. And I think we've seen that in the trending.  
15 As well as the fact that in the mid 2000's electric  
16 prices spiked fairly dramatically --

17 MR. ASHTON: Yes --

18 MR. GOODWIN: -- so I think the  
19 combination of gas having a natural advantage and some  
20 spikes in electric prices has led to a lot of conversions  
21 over the last five to ten plus years.

22 MR. ASHTON: Okay. I don't want to  
23 belabor it, but that's interesting. In your forecast,  
24 which was dated March 11th -- March 1st, pardon me, this

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 year, you indicate a seven-tenths percent growth for the  
2 year 2012. What's your -- what's your bookie giving you  
3 on odds you'll make that? And I'm looking at Table 2.2.

4 (pause)

5 MR. GOODWIN: Yeah, I don't -- what I can  
6 tell you for certain is that we're running lower than  
7 that number --

8 MR. ASHTON: Yeah --

9 MR. GOODWIN: -- we're under our budget.  
10 I don't know exactly --

11 MR. ASHTON: Okay. I don't want to -- I  
12 don't want to flog it --

13 MR. GOODWIN: Largely --

14 MR. ASHTON: -- but my perception is that  
15 the economy is very -- still very troubled. And if it's  
16 moving upward, it's imperceptible, and at best it seems  
17 to be going straight out --

18 MR. GOODWIN: I think that's a fair  
19 description. I think when you look at this forecast  
20 relative to the last one, each successive forecast gets a  
21 little optimistic about the economic recovery. We're  
22 just waiting --

23 MR. ASHTON: Sure --

24 MR. GOODWIN: -- for it to happen.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. ASHTON: Well it's traditional it  
2 shows you coming out of it pretty rapidly -- coming out  
3 of inflation --

4 MR. GOODWIN: Right --

5 MR. ASHTON: -- and this is the worst  
6 response that we've seen in many --

7 MR. GOODWIN: It's been a long --

8 MR. ASHTON: -- many years --

9 MR. GOODWIN: It's been a long time. I  
10 would agree.

11 MR. ASHTON: Is the -- is there still a  
12 difference in the way peak load megawatts are growing  
13 versus megawatt hours, the load factor is decreasing on  
14 the NU system?

15 MR. GOODWIN: Well I think that the gap is  
16 closing. There was a period of time five years or so ago  
17 where I think the amount of air-conditioning load coming  
18 onto the system was fairly dramatic. So we were going  
19 through a period where peak was actually growing  
20 relatively faster than output. I think that the air-  
21 conditioning penetration is still there. I think as well  
22 though that we've done so much more on the demand and  
23 management side between distributed generation and energy  
24 efficiency programs that are targeted towards demand

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 resources, and the ISO programs, that it's -- it's more  
2 leveled off. In this forecast we have a 10-year compound  
3 growth rate on output of four-tenths of a percent per  
4 year and on peak of seven-tenths of a percent. So  
5 they're really not very different --

6 MR. ASHTON: Not far apart, yeah --

7 MR. GOODWIN: -- the -- the load factor is  
8 relatively constant in the forecast.

9 MR. ASHTON: What would you view as  
10 probably the best indicator as the direction the economy  
11 is taking? Having been in the forecasting game for a  
12 long time --

13 MR. GOODWIN: Yeah --

14 MR. ASHTON: -- I respect your judgment.

15 MR. GOODWIN: Clearly employment would be  
16 one. And when you look at non-manufacturing employment  
17 in particular -- in this state manufacturing employment  
18 has declined for 25 straight years or something like that  
19 --

20 MR. ASHTON: Yeah --

21 MR. GOODWIN: -- so that's not a great  
22 indicator. But non-manufacturing employment I think is a  
23 -- is a fairly good indicator. When you look at our  
24 forecast, the amount of jobs that we've lost since 2008

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 in this state is mind-boggling --

2 MR. ASHTON: Yeah --

3 MR. GOODWIN: -- so when we see those  
4 numbers coming back, you know, I think that's some room  
5 for optimism. There are some other general indicators  
6 like new car purchases --

7 MR. ASHTON: Yeah --

8 MR. GOODWIN: -- that I think are a fair  
9 indicator of how people are feeling from a comfort level  
10 about their disposable income, and I think that would be  
11 a good sign of some recovery. Unfortunately, both of  
12 those indicators are still fairly low and lagging.

13 MR. ASHTON: Okay. Thank you very much.

14 CHAIRMAN STEIN: Mr. Wilensky.

15 MR. WILENSKY: Yes, just a couple of  
16 things. In your forecast dated March 1st, you state that  
17 at least 70 percent of the electric power needed to serve  
18 customer peak demand must be generated in Connecticut. I  
19 thought we were able to generate much more than that. I  
20 thought -- I -- I thought we could almost generate enough  
21 generation, especially with Kleen Energy coming on in  
22 Connecticut to serve the needs of the -- of the public.

23 MR. DAVID ERRICHETTI: Could you provide  
24 the citation again?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. WILENSKY: Pardon?

2 MR. ERRICHETTI: Could you point to where

3 --

4 COURT REPORTER: I'm sorry, bring that  
5 microphone up closer to you please.

6 MR. ERRICHETTI: Where are you in the  
7 report?

8 MR. WILENSKY: In other words, it said on  
9 the transmission planning that 70 percent of the electric  
10 power needed to serve customer peak demand must be  
11 generated in Connecticut. This is in the booklet dated  
12 March 1st of forecast of loads and resources --

13 MR. ERRICHETTI: Yes --

14 MR. WILENSKY: -- for the period 2012 to  
15 2021.

16 MR. ERRICHETTI: Yes --

17 MR. WILENSKY: And I thought we were able  
18 to generate more power than that in the State of  
19 Connecticut, especially as I said with Kleen Energy  
20 coming on-line.

21 MR. ERRICHETTI: Yeah, I think what the  
22 statement is in reference to is it needs to be more than  
23 70 percent. It's not saying that we can only generate up  
24 to. It's saying that we have to generate at least 70

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 percent because we can only import twenty-five hundred  
2 megawatts into --

3 MR. WILENSKY: Do you need -- do you need  
4 more generation in Connecticut?

5 MR. ERRICHETTI: I -- I think the  
6 reference that you're reading is more trying to point out  
7 that Connecticut is more dependent on in-state generation  
8 than other New England states --

9 MR. WILENSKY: More depending on in-state  
10 generation?

11 MR. ERRICHETTI: Yes.

12 MR. WILENSKY: Okay. Do we need --

13 MR. ERRICHETTI: Now do we need more? I -  
14 - I would say at present with all that we've done in  
15 Connecticut --

16 MR. WILENSKY: Yes --

17 MR. ERRICHETTI: -- we're in pretty good  
18 shape, with Kleen coming on and -- I mean there's --  
19 we're not talking about Interstate and the implications  
20 of Interstate, but with Kleen and with the New Haven  
21 peaking generation, the Middletown peaking generation,  
22 the Devon peaking generation, we still have the two  
23 Millstone units, we're -- we are in a lot better shape  
24 than we were years ago --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. WILENSKY: I thought so and that's why  
2 I was asking that question. But along with that, it also  
3 states that among all New England states, Connecticut is  
4 the least able to serve its peak load using power  
5 imports. I thought with the new transmission lines  
6 throughout the state and what is happening, that we could  
7 serve the state very well?

8 MR. ERRICHETTI: I'm going to pass that  
9 back to the fellow on my left.

10 CHAIRMAN STEIN: You want to be careful  
11 about the transmission lines I think given 424. I think  
12 we ought to --

13 A VOICE: Withdrawn --

14 CHAIRMAN STEIN: -- we should stay away  
15 from that.

16 MR. ERRICHETTI: I can answer --

17 MR. WILENSKY: We're not even talking  
18 about 424. I'm talking about Springfield to -- to -- to  
19 Bloomfield.

20 CHAIRMAN STEIN: Well then be more  
21 specific.

22 MR. WILENSKY: Mr. Ashton is whispering in  
23 my ear -- (laughter) --

24 A VOICE: Everybody is --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. BENTLEY: The -- the existing import  
2 capability is twenty-five hundred megawatts. And I'd  
3 like to get back to Mr. Perrone's question. I will say  
4 this much, in real time we have seen imports being needed  
5 up to twenty-five hundred megawatts. And you know,  
6 depending on the economics of the generation in  
7 Connecticut, there can be a need for additional. It may  
8 make this more economic to have additional imports. So  
9 you know, it gets to that question -- and I'll stop there  
10 because I'm going to walk into a danger zone probably.

11 MR. WILENSKY: Well with everybody  
12 whispering in my ear, that's the end of my questions.  
13 Thank you, Mr. Chairman.

14 CHAIRMAN STEIN: Mr. Ashton.

15 MR. ASHTON: Yeah, I have -- I have one  
16 other question. Connecticut has the residue of what was  
17 once the bulk of the transmission system, the 69,000  
18 volt system serving the Falls Village area, Mansfield,  
19 the Groton area, and I guess Rockville. What's the  
20 future of that system? Is it going to stay there and  
21 just peter out because some of it has been rebuilt for  
22 115 capability? The Falls Village line for example has  
23 115-kV capability.

24 MR. BENTLEY: As a transmission planning

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 group, we -- we continually look at each of those 69-kV  
2 areas in our system to recognize are there opportunities  
3 to get the system closer to -- it does make some sense,  
4 but there are some significant hurdles to overcome as far  
5 as conversions, especially in the Falls Village area and  
6 going up there. There's generation up there that we  
7 would have to look at, replacing VSUs. So the  
8 proposition gets a little expensive at times, so you have  
9 to look at the cost benefit, is there a liability need  
10 that can help justify the conversion or can you make the  
11 improvements to keep that going and keep that within the  
12 standards and maintained.

13 MR. ASHTON: Well just taking Falls  
14 Village as an example, my recollection is the substation  
15 at Falls Village has been spaced for 115. You've got the  
16 69-kV normally open tied in New York and the line up to  
17 North Canaan, which I can't remember if it was 115 or not  
18 -- I think it is, but I'm not sure --

19 MR. BENTLEY: I don't know what it was  
20 exactly built to back in the day. We have closed the tie  
21 to New York. That tie is actually operated normally  
22 closed --

23 MR. ASHTON: Normally closed?

24 MR. BENTLEY: Yep.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. ASHTON: And it's in synchronism and  
2 parallel to the 345 system?

3 MR. BENTLEY: Yes, we have a transformer  
4 at Torrington that actually feeds the flow. What happens  
5 is when the 345-kV systems in place, system normal under  
6 no contingencies, all that flow is flowing on the 345.  
7 When you lose the 345-kV system -- or that line, the 398  
8 line I believe, then we will open up the 69 to make sure  
9 we don't have a parallel path and burn down the --

10 MR. ASHTON: If you lose a generator, does  
11 the swing go on that line?

12 MR. BENTLEY: Which generator --

13 MR. ASHTON: If you lose a major -- you  
14 know, a Millstone unit for example, would there be a  
15 major swing on that 398 line?

16 MR. BENTLEY: That -- well it may swing on  
17 the 398 line, but it won't go down to the 69-kV level.  
18 You won't see a significant impact there as long as you  
19 have the parallel path --

20 MR. ASHTON: Okay. That must be -- that's  
21 got to be a recent development.

22 MR. BENTLEY: I know it's gone back and  
23 forth a little bit, but we do operate that normally  
24 closed.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. ASHTON: Okay. Okay, so the bottom  
2 line is probably nothing for the foreseeable future?

3 MR. BENTLEY: We do keep looking at it.  
4 You know, any opportunity that we have, if there is  
5 something that we're looking at for an upgrade, if  
6 there's a maintenance requirement -- I -- I talk to our  
7 operations department as well as our engineering  
8 department and maintenance, and just to look for  
9 opportunities -- it's something that --

10 MR. ASHTON: What -- when you replace  
11 frames on a -- I think -- except for Falls Village,  
12 they're all wood pole lines as I recall --

13 MR. BENTLEY: Yeah --

14 MR. ASHTON: -- when you replace frames,  
15 do you space it at 115 or 69?

16 MR. BENTLEY: I think we'd have to look at  
17 that and see what the siting requirements are. You know,  
18 if there's opportunities to do it -- and it also depends  
19 on what was built there previously. So it's just a  
20 matter of --

21 MR. ASHTON: Well the spacing difference  
22 is not exactly dramatic --

23 MR. BENTLEY: No --

24 MR. ASHTON: -- it is something, but --

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. BENTLEY: I don't think we've done a  
2 lot of replacements in the recent past up there, so --  
3 not any structural replacements on those particular lines  
4 up there.

5 MR. ASHTON: Okay. Nothing further.  
6 Thank you, sir.

7 CHAIRMAN STEIN: Thank you. Mr.  
8 Golembiewski.

9 MR. GOLEMBIEWSKI: No questions, thank  
10 you.

11 CHAIRMAN STEIN: Mr. Lynch.

12 MR. LYNCH: Just one question. It seems  
13 that over the years with the upgrades in Southwestern  
14 Connecticut and Kleen coming on as far as generation that  
15 the in-state reliability is relatively stable. Is that -  
16 - am I making a correct statement?

17 MR. ERRICHETTI: Could you rephrase -- or  
18 state your question again?

19 MR. LYNCH: With the upgrades to your  
20 system --

21 MR. ERRICHETTI: Yeah --

22 MR. LYNCH: -- and some new generation,  
23 particularly Kleen, that as far as in-state not having to  
24 import any power, we're on a pretty good basis?

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. ERRICHETTI: I would encourage -- I  
2 don't know if you've seen the draft 2012 Connecticut IRP  
3 --

4 MR. LYNCH: Yeah, I'm going there --

5 MR. ERRICHETTI: Okay -- well, I -- I  
6 think your -- your -- I think the complete story or the  
7 final state is -- the final chapter is not written or  
8 it's being written. I think that will really set  
9 Connecticut up well for a little while --

10 MR. LYNCH: Okay --

11 MR. ERRICHETTI: -- and I think we're  
12 trying to avoid talking about that.

13 MR. LYNCH: Well I'm -- I'm -- I'm not  
14 going to -- I'm trying to avoid -- so I'm going to go to  
15 another area. You heard this afternoon when the ISO was  
16 here --

17 MR. ERRICHETTI: Yes --

18 MR. LYNCH: -- that they do not include in  
19 their forecast and neither do we in ours the generation  
20 plant in Oxford --

21 A VOICE: Towantic --

22 MR. LYNCH: Yeah -- Towantic, yeah. And -  
23 - but they say it maintains its place in the cue. My  
24 question then as far as generation reliability is, is

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 that plant really needed? Do you feel it's needed? Have  
2 you been asked to come in and work on the tie-ins again?  
3 It's been sitting there for 13 years and nothing has been  
4 done.

5 MR. ERRICHETTI: I -- I can probably  
6 provide an additional update on that because I'm maybe a  
7 little bit more familiar than the ISO witnesses that are  
8 here. The Towantic actually withdrew from the cue. I  
9 believe it was sold to another developer, MGE. And so  
10 they had to withdraw from the cue and re-enter the cue.  
11 So they have now taken a new cue position. That's --  
12 that's also -- in the planning world that matters where  
13 you are in the cue. And I don't believe they've gone far  
14 enough in the cue yet to really get into the studies yet.

15 MR. LYNCH: Okay, that's -- that's what I  
16 had thought, and that's what I thought I was going to get  
17 from the ISO, so I'm glad you cleared that up for me.

18 MR. ERRICHETTI: Okay. Yeah, that's my  
19 with the ISO --

20 MR. LYNCH: Okay, thank you. No  
21 questions, Mr. Chairman.

22 CHAIRMAN STEIN: Thank you. Mr. Levesque.

23 MR. LEVESQUE: No questions.

24 CHAIRMAN STEIN: Senator Murphy.

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 MR. MURPHY: No questions.

2 CHAIRMAN STEIN: Dr. Bell.

3 DR. BELL: Thank you, Mr. Chair. I had  
4 the same question regarding REGGE as I asked to UI, not  
5 so much about your relationship with the negotiations,  
6 but rather do you know -- do you have a sense of what  
7 changes will be made in the rules?

8 MR. HONAN: I think the short answer is no  
9 -- (laughter). There was -- there was a little bit in  
10 the draft IRP that was just referenced, a paragraph  
11 talking about they're rethinking the rules -- updating  
12 the rules coming out this year. But beyond that limited  
13 paragraph that's in there, I really don't have any  
14 specific knowledge.

15 DR. BELL: Okay, thank you. And regarding  
16 solar, do you have -- can you give us some information on  
17 the number of solar installations and kilowatt hours?

18 MR. FERRANTE: I can provide you the exact  
19 data, but it's approximately -- for CL&P we have about 25  
20 megawatts of solar installed already over fifteen hundred  
21 to sixteen hundred customers. But I'll give you the  
22 correct data over time. I don't have the exact number  
23 here --

24 DR. BELL: Okay. That would be great if

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 you could supply that.

2 And a follow-up to the question about  
3 electric cars, actually in the first set of responses,  
4 Question No. 4, you give us gigawatt hours that you have  
5 actually built into your forecast. You seem to say --  
6 associated with electric cars and you say this -- the  
7 load that you've built in represents approximately an  
8 annual increase of forty-three hundred electrical --  
9 electric vehicles per year. Are you seeing where you  
10 wrote this?

11 MR. GOODWIN: I see that, yes.

12 DR. BELL: Okay. I'm sorry, I should look  
13 at you, Mr. Goodwin, because your name is clearly on  
14 there. So -- that's already in your forecast. And  
15 earlier when you were discussing with Mr. Ashton and Mr.  
16 Perrone on this, you were saying it didn't look as if you  
17 had very many electric vehicles --

18 MR. ERRICHETTI: We don't have forty-three  
19 hundred of them. I can --

20 DR. BELL: So the figure of forty-three  
21 hundred is not -- it won't -- you won't build forty-three  
22 hundred a year --

23 MR. GOODWIN: No. I think a couple of  
24 things to note around -- this was a forecast -- the data

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 goes back a year or so ago, and at that time the market  
2 was still evolving. I think we were clearly a little  
3 overly optimistic as to the prospects. We continue to be  
4 optimistic obviously. There's a lot of activities at  
5 CL&P and Northeast Utilities that's involved in as it  
6 relates to electric vehicle charging station pilots,  
7 plans that we're working on with DEEP around some  
8 interstate locations to the point -- to the gentleman's  
9 point about going from one end of the state to the other.  
10 So there are a number of activities that we're involved  
11 with from a planning perspective. The market hasn't  
12 materialized as fast as we had hoped a year or so ago.  
13 But as it relates to the forecast, we've made an  
14 assumption in the forecast that there won't be any peak  
15 demand impact from electric vehicles. So these are  
16 gigawatt hour numbers built into the forecast, there's no  
17 assumption about incremental peak demand. It's our  
18 belief that the market will largely do its charging off  
19 peak, mostly domestic at home overnight type peaking.  
20 One of the things we are contemplating is a rate pilot to  
21 try to understand what we need to do to encourage  
22 homeowners to make sure that that off peak charging  
23 happens. So as it relates again to the peak forecast,  
24 regardless as to how optimistic these volumetric

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 projections may have been, it didn't impact our peak  
2 forecast.

3 COURT REPORTER: One moment please.

4 (pause - tape change)

5 DR. BELL: Okay, thank you for that  
6 clarification.

7 MR. GOODWIN: You're welcome.

8 DR. BELL: Thank you, Mr. Chair. Those  
9 are my questions.

10 CHAIRMAN STEIN: Mr. Levesque.

11 MR. LEVESQUE: For that brief solar --  
12 description of the solar installations over the last 10  
13 or whatever years it's easy to produce, could you include  
14 maybe an annual change of the size of like residential  
15 installations if you have it, and by, you know, type of  
16 property?

17 MR. FERRANTE: Yeah, I can break it down  
18 by residential, commercial, and --

19 MR. LEVESQUE: You probably already did it  
20 for another docket. Thank you very much.

21 CHAIRMAN STEIN: Okay. I had a question.  
22 I thought the actual question and response by pretty much  
23 everybody was asked about the importance of the duration  
24 of a heat wave -- in other words, that even if the

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 temperature over three days is the same, the third day  
2 the demand is much -- is greater because by that time  
3 people are even more uncomfortable and therefore more  
4 air-conditioning -- are you following me?

5 MR. GOODWIN: Yeah, I can address that,  
6 sir --

7 CHAIRMAN STEIN: Well let me -- I haven't  
8 asked the question yet --

9 MR. GOODWIN: No, but I just wanted to  
10 make eye contact because you were asking -- (laughter) -  
11 -

12 CHAIRMAN STEIN: Alright. I apologize for  
13 that. So my question is if in the future -- or do you  
14 model the possibility that the actual duration of the  
15 heat waves may increase? For example -- I don't know  
16 what the average -- you say it's three days now -- if it  
17 would go to four days or even five days, and wouldn't  
18 that have a significant increase on the peak? And do you  
19 consider that in your forecast model?

20 MR. GOODWIN: Well what I'd say is that  
21 no, we haven't made an explicit consideration for a  
22 change in the weather pattern. So what we modeled for  
23 our forecast is a weather normal load. So whatever the  
24 average in our last 30-year weather normal period has

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1       been around the peak, in our forecast we would assume  
2       that those same peak conditions that have happened in the  
3       past would continue to happen going forward. But that  
4       would be in our 50/50 forecast. We do provide in our  
5       filing a 90/10 forecast where we've got a more extreme  
6       hot weather projection, and that picks up some of the  
7       more extreme peak conditions from past years. So I think  
8       it would be fair to say that in the context of our 90/10  
9       extreme forecast those types of -- I guess to your point  
10      more extreme build-ups that might create that yet higher  
11      peak, that would be reflected in the 90/10 higher case  
12      forecast.

13                   CHAIRMAN STEIN: Is that what you call an  
14      extreme hot --

15                   MR. GOODWIN: Yes --

16                   CHAIRMAN STEIN: -- weather scenario?

17                   MR. GOODWIN: Yes. Yes.

18                   MR. ASHTON: I've got a question when  
19      you're through.

20                   CHAIRMAN STEIN: Okay. Mr. Ashton.

21                   MR. ASHTON: Mr. Goodwin, if my memory is  
22      correct, the gas forecast for example was done for a 20-  
23      year period -- the previous 20-year period. That has  
24      actually changed, hasn't it, in the last 20 or 30 years,

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 so that the -- you know, we started out with roughly  
2 sixty-five hundred degree days and it's down -- I don't  
3 know -- 6,000 or something like that

4 MR. GOODWIN: A little under 6,000 --

5 MR. ASHTON: It's under now --

6 MR. GOODWIN: Yeah.

7 MR. ASHTON: So doesn't that implicitly  
8 say your 50/50 forecast is reflecting some climatic  
9 change that we're experiencing?

10 MR. GOODWIN: Absolutely.

11 MR. ASHTON: Okay.

12 MR. GOODWIN: Absolutely.

13 CHAIRMAN STEIN: Also -- just a question --  
14 -- some years ago -- and maybe you still have this program  
15 -- you could -- I think it was like a \$25.00 rebate sign  
16 up to have CL&P -- I don't know whether it was disconnect  
17 your air-conditioning if you reached some kind of -- I  
18 guess a danger of a brown-out -- is that --

19 MR. BEBRIN: I think there was a -- I  
20 don't know -- there was a program that ISO ran --

21 CHAIRMAN STEIN: Sorry --

22 MR. BEBRIN: -- I believe. And we've done  
23 pilots on different controls. So, I don't know the exact  
24 one you're talking about, but there was some company

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 going around when they did the -- I forgot what they  
2 called it -- but ISO ran a program --

3 MR. GOODWIN: I believe it was Converge --  
4 it was part of the ISO --

5 MR. BEBRIN: Yeah --

6 MR. GOODWIN: -- load response programs --

7 MR. ERRICHETTI: Yeah, there was a company  
8 called Converge that a few years ago had that program. I  
9 don't know if they're still around. But yeah, we -- CL&P  
10 didn't sponsor it. It was a third-party that did it.

11 CHAIRMAN STEIN: So I guess my question is  
12 how would it work or -- because obviously wouldn't CL&P  
13 or ISO or somebody have to trigger this because of some  
14 extreme --

15 MR. ERRICHETTI: They could do a better  
16 job of answering this, but I'll give it a shot. We  
17 understood that a third party installed equipment at your  
18 home that would curtail -- they'd turn off your air-  
19 conditioner say for two or three hours, and they signed  
20 up thousands of customers and sold the same equipment and  
21 they would cycle through all of the different homes  
22 staggered so that they -- they got an aggregate -- the  
23 reduction they were looking for. But the individual  
24 customer wasn't made uncomfortable. So it was all -- it

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 was -- it was -- ISO would contact that third-party and  
2 say we need load relief. That third-party would then  
3 trigger the -- turn off the air-conditioners and manage  
4 that whole program for the duration that ISO was calling  
5 for the interruption. And then when the -- when ISO said  
6 the interruption is done, they would let everybody come  
7 back on.

8 CHAIRMAN STEIN: Very good. I guess --  
9 that's how I understood it. And is that still in  
10 practice --

11 MR. ERRICHETTI: Well --

12 CHAIRMAN STEIN: -- or theoretical?

13 MR. ERRICHETTI: The reason I'm familiar  
14 with it was as a result of one of -- why am I familiar  
15 with it -- (laughter) -- as a -- as a -- as we were  
16 discussing those monetary grant programs earlier, as a  
17 part of that act back in 2005, we engaged Converge to  
18 extend the program that they had installed in response to  
19 an ISO RFP. The long of it -- the short of it is, is  
20 that our involvement with Converge ended a couple of  
21 years ago. And whether Converge is still in Connecticut  
22 doing it, I don't know. That's -- so that's why I don't  
23 know if it's still in practice today.

24 CHAIRMAN STEIN: So you're telling me I

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

1 don't have to return that \$25.00 -- (laughter) --

2 MR. ERRICHETTI: Well you -- you may still  
3 be -- well -- I thought that payment was annually. Did  
4 you --

5 CHAIRMAN STEIN: Then it's definitely not  
6 in existence -- (laughter).

7 Okay. I will now see if there are any --  
8 if any of the remaining parties have any questions.  
9 FirstLight Power? Dominion? Connecticut Municipal?  
10 UI?

11 MR. MCDERMOTT: No, thank you.

12 CHAIRMAN STEIN: So I guess at this point  
13 we will recess and resume the public portion of the  
14 hearing at 7:00 p.m.

15

16 (Whereupon, the hearing adjourned at 4:30  
17 p.m.)

HEARING RE: F-2012-2013  
 JUNE 12, 2012 (1:05 PM)

INDEX OF WITNESSES

	PAGE
ISO NEW ENGLAND WITNESS PANEL:	
Mark Karl	
David Ehrlich	
Cross-Examination by Council Staff	9
Cross-Examination by Council Members	13
FIRSTLIGHT POWER WITNESS PANEL:	
Eric DeBarba	
Direct Examination by Mr. Baldwin	31
Cross-Examination by Council Staff	32
Cross-Examination by Council Members	35
DOMINION NUCLEAR CONNECTICUT WITNESS PANEL:	
Kevin Hennessey	
Direct Examination by Mr. Baldwin	45
Cross-Examination by Council Staff	46
Cross-Examination by Council Members	50
CMEEC WITNESS PANEL:	
Charles Carpinella	
Brian Forshaw	
Direct Examination by Ms. Kipnis	69
Cross-Examination by Council Staff	70
Cross-Examination by Council Members	74
UNITED ILLUMINATING CO. WITNESS PANEL:	
Alex Boutsioulis	
Robert Manning	
Pat McDonnell	
Direct Examination by Mr. McDermott	88
Cross-Examination by Council Staff	89
Cross-Examination by Council Members	97

HEARING RE: F-2012-2013  
 JUNE 12, 2012 (1:05 PM)

CONNECTICUT LIGHT & POWER CO. WITNESS PANEL:

Timothy Honan  
 David Errichetti  
 Brad Bentley  
 Charles Goodwin  
 David Ferrante  
 David Bebrin

Direct Examination by Mr. Gibelli	121
Cross-Examination by Council Staff	126
Cross-Examination by Council Members	133

INDEX OF FIRSTLIGHT EXHIBITS

	NUMBER	PAGE
Report of Forecast (ID)	1	31
Full Exhibit		32
Responses to Interrogatories (ID)	2	31
Full Exhibit		32

INDEX OF DOMINION EXHIBITS

Report of Forecast (ID)	1	45
Full Exhibit		46
Responses to Interrogatories (ID)	2	45
Full Exhibit		46

INDEX OF CMEEC EXHIBITS

Report of Forecast (ID)	1	69
Full Exhibit		70
Responses to Interrogatories 5/11/12 (ID)	2	69
Full Exhibit		70
Responses to Interrogatories 6/5/12 (ID)	3	69
Full Exhibit		70

HEARING RE: F-2012-2013  
JUNE 12, 2012 (1:05 PM)

## INDEX OF UNITED ILLUMINATING EXHIBITS

	NUMBER	PAGE
Report of Forecast (ID)	1	88
Full Exhibit		89
Responses to Interrogatories 5/11/12 (ID)	2	88
Full Exhibit		89
Responses to Interrogatories 6/5/12 (ID)	3	88
Full Exhibit		89

## INDEX OF CONNECTICUT LIGHT &amp; POWER EXHIBITS

Report of Forecast (ID)	1	121
Full Exhibit		124
Responses to Interrogatories 5/11/12 (ID)	2	121
Full Exhibit		124
Responses to Interrogatories 6/5/12 (ID)	3	121
Full Exhibit		124